

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 "AMBULANCE BID".

Bids shall be addressed to:

Bids will be received no later than _____ o'clock a.m./p.m. on the _____ day of _____ 20____, 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 at the following location:

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.

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.**

LEGAL RIGHT TO SPECIFY

The Purchaser chooses to exercise its Legal Right to Specify as determined by the U.S. Supreme Court's affirmation of the decision handed down in the case of Whitten Corp. vs. Paddock by the U.S. District Court of Massachusetts, the First Federal District Court:

1. That as trained professionals, the Purchaser makes informed judgments on products that they feel best serve their needs. Technically, very few brands of material or equipment are exactly alike, and if the specifier wants to limit the specification to one source he has the right to do so and enforce it.
2. Only the specifier has the responsibility and judgment for determining whether a proposed substitution is an "or equal".
3. That from start to finish in the purchasing process only the specifier can ultimately decide if another desirable product is available in lieu of the specification.
4. Finally, that the courts concluded "the burden is on the supplier or manufacturer, who has NOT been specified, to convince the specifier that their product is equal for the purpose of a particular project".

The specifier has determined that this product specification shall represent the product to which all offerings shall be compared. Due to the fact that emergency response duties are ULTRA-HAZARDOUS, UNAVOIDABLY DANGEROUS activities, only trained personnel with specific knowledge in the area of Emergency Service Equipment shall be allowed to make the final decision on the selection of the appropriate product to best serve the purchaser.

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-1822F. In-house certifications will not be accepted due to the nature of their potential bias.

The vehicle must conform to all of the most recent change orders and amendments to KKK-A-1822F.

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.), currently a member of the National Fire Protection Association (N.F.P.A.) 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 (☐)

REFERENCE LIST

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 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 (☐)

Employee Share Option Plan

Manufacturer must participate in an Employee Share Option Plan (ESOP) for all employees of the manufacturing company. This method of ownership gives each employee the incentive to perform his or her best work ethic and ensures the highest quality of workmanship is invested into each and every ambulance the manufacturer produces.

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

BUY AMERICAN

It is the intent of these specifications and requirements listed herein to obtain proposals on vehicles to meet the local needs of the Purchaser that may be easily and completely evaluated on an equal basis. In accordance with "Buy America" programs, proposals will be accepted only from manufacturers that are only 100% wholly owned, financed, and operated by USA based firms.

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 chassis and conversion warranty and non-warranty items. Drive-to service facility shall be no more than 100 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. If the vehicle is reported to be out-of-service it must be picked-up in 24 hours or less. Diagnostics must commence immediately upon arrival. If parts are not in stock they must be shipped overnight express. Once repairs are completed the vehicle must be returned in 12 hours or less. NO EXCEPTIONS. Service must be provided by a licensed repair facility. NO EXCEPTIONS. 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. SERVICE MUST BE PROVIDED BY THE SELLING DEALER. USE OF A THIRD-PARTY SUB-CONTRACTOR WILL BE UNACCEPTABLE. NO EXCEPTIONS.

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

EMERGENCY ROADSIDE SERVICE

Bidder must offer emergency roadside service at no additional charge should the Emergency Medical Vehicle become disabled and/or unable to be operated in a safe manner. Service for both the chassis and conversion must be provided. NO EXCEPTIONS. SERVICE MUST BE PROVIDED BY THE SELLING DEALER. USE OF A THIRD-PARTY SUB-CONTRACTOR WILL BE UNACCEPTABLE. NO EXCEPTIONS.

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

AUTO BODY REPAIR

Bidder must provide a drive-to auto body repair facility for all body work. Drive-to auto body repair facility shall be no more than 100 miles from the purchaser's place of business. Pick-up and delivery service to the drive-to auto body repair facility shall be included at no additional charge. Body repair for both the chassis and conversion must be provided. Bidder must state their body repair provisions and requirements necessary to maintain the manufacturer's warranties and the location of the nearest manufacturer's authorized body repair facility.

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

GARAGE LIABILITY AND GARAGE KEEPER'S LIABILITY INSURANCE

The bidder will maintain Garage liability insurance coverage with a minimum of \$3,000,000 per occurrence (Umbrella/ Excess accepted). The coverage limit will be in effect at the time the bid is submitted and at the time the Emergency Medical Vehicle is accepted. The bidder will maintain Garage Keepers liability insurance coverage with a minimum coverage limit of \$750,000 for each location. The Garage Keepers coverage will be written on Direct Primary coverage form. Policies that are secondary to the buyer's own liability insurance shall be unacceptable. NO EXCEPTIONS. The coverage limit and coverage form will be in effect at the time the bid is submitted and at the time the Emergency Medical Vehicle is accepted. A copy of valid insurance proof shall be included with this bid. 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 (___)

VEHICLE INSPECTIONS

In addition, the bidder must provide semi-annual 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 cost of the purchaser at the discretion of the purchaser.

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

SERVICE REFERENCE LIST

Each bidder shall furnish satisfactory evidence of his ability to provide the above service, auto body repair, liability

insurance, and preventive maintenance requirements by providing a reference list of similar units delivered to local customers including a contact name, phone number, year, make, and model, and a date of delivery. This list shall show proof that these services are routinely provided by the bidder without additional charge to all its customers. This list must include customers who have purchased ambulances at least five (5) years ago or more as well as units delivered within the past year. **NO EXCEPTIONS.**

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). The manufacturer shall also be a member in good standing of the National Fire Protection Association (NFPA). This is to demonstrate active industry participation in evolving standards processes and technological changes. Documentation must be provided.

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.
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 ½" 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 \$9,000,000.00 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 (___)

NEW CAR VEHICLE 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.

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

MANUFACTURER'S LICENSING

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

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 160 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 their 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.	Ambulance Manufacturer's Interior Cabinets	_____	_____
3.	Ambulance Manufacturer's Conversion	_____	_____
4.	Ambulance Manufacturer's Electrical System	_____	_____
5.	Ambulance Manufacturer's Wiring Harness	_____	_____
6.	Ambulance Manufacturer's Paint	_____	_____
7.	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>
<i>CURRENT KKK-A-1822F CERTIFICATION</i>	_____
CURRENT Q.V.M. CERTIFICATION	_____
CURRENT N.T.E.A. MEMBERSHIP	_____
CURRENT N.F.P.A. MEMBERSHIP	_____
PRODUCT LITERATURE	_____
PRODUCT BUILD SPECIFICATIONS	_____
ALL APPLICABLE WARRANTY DOCUMENTS	_____
MODULAR BODY SAMPLES	_____
PROPOSAL DRAWINGS	_____
INSURANCE CERTIFICATE	_____
COPY OF DEALER'S LICENSE	_____
COPY OF MANUFACTURER'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	_____

Manufacturer Compliance

It is the intent of these specifications that the manufacturer of this vehicle has the ability to manufacture a completed ambulance with the exception of the chassis, within their own manufacturing facility. The basic modular body must be built in the manufacturer's facility and shall not be the product of a subcontractor or any company other than the manufacturer. Accessories such as light bars, sirens and other add on components are not considered as basic components of the modular body. The ambulance manufacturer must have significant experience in the construction of modular ambulance bodies and shall have manufactured a minimum of 1000 comparable units.

This department requires that the manufacturer of the ambulance be a 100% American owned company. American owned defines the manufacturer as well as the majority equity owners of the manufacturer as US companies, individuals and/or stockholders.

The manufacturing company must also have a portion owned by its employees. There shall be an Employee Stock Option Plan (ESOP) or equivalent. This method of ownership gives each employee the incentive to perform their best. This work ethic ensures that the highest quality of workmanship is invested into each and every ambulance the manufacturer produces.

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

Bidder Complies YES_____ NO_____

Single Source Manufacturer

To simplify warranty coverage and to assure a consistent level of quality throughout the vehicle, a manufacturer is desired that manufactures the major components for the ambulance (excluding chassis). Major components are defined as: the module body to include the doors, the interior cabinets, and the cushions.

The highest degree of quality, both in materials and in the building processes, is required for the emergency medical vehicle being proposed.

To ensure the utmost quality and attention to detail the ambulance manufacture shall be employee owned. Attention shall also be focused on American made products and suppliers.

Bidder Complies YES_____ NO_____

Service Support and Availability

Service will be a major factor in the award of this proposal. Convenience and experience will be determining factors in determining acceptable service. A service facility within a reasonable radius will be required. Personnel who perform the training shall be trained by the manufacturer.

Special attention shall be given to electrical and HVAC service.

Please include the following:

Facility name and address

Distance to the service facility

Name(s) of the service technicians

Bidder Complies YES_____ NO_____

Piggy Back Clause

It is the intent of this department to allow other fire and EMS agencies to "Piggy-Back" or "Tag On" to this bid. It is understood that this department assumes no liability of any kind in allowing other agencies to use the bid response. The purchase by other agencies will be solely between the successful bidder and the other interested agencies.

Bidder Complies YES _____ NO _____

Quality Assurance

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

The sign off shall include such areas as:

1. Visual inspection of the body, welds, and exterior attachments.
2. Visual and mechanical inspection of the HVAC lines, cables, grommets, valve connections, clamps, mounting brackets and belts.
3. Visual inspection of cabinets, sliding/hinged cabinet doors, flooring, walls, headliner, and cushions.
4. Visual inspection of exterior paint and finish.
5. Operational inspection of all electrical systems. This testing must consist of a battery voltage, electrical load, alternator output, emergency lighting, non-emergency lighting, siren, exhaust fan, HVAC, and all optional equipment required by this specification. The current and total load requirements of each device tested must be noted on an inspection sheet.
6. The oxygen and vacuum systems shall be tested both prior to and after installation. All documentation shall be recorded.
7. All chassis fluids shall be checked and filled to capacity. All doors, locks, latches, windows and tires shall be inspected for proper operation or condition.

The completed vehicle must be test driven for a minimum of ten miles on different terrain. All operational components including any noises shall be documented and repaired if necessary. Upon completion of all tests the vehicle shall be water spray tested and checked for any leaks.

Bidder Complies YES _____ NO _____

WARRANTY

The proposal shall include all printed warranties that are required in the following detailed specification. All Vehicles shall be covered by a minimum of five individual warranties. All warranties shall be from the manufacturer as opposed to a distributor or a service center, thus protecting the purchaser from a false warranty .

The Five Warranties Include:

Ambulance Modular: shall be Lifetime with unlimited miles

Ambulance Conversion: shall be for a period of five years or 60,000 miles.

Interior Cabinet: shall be Lifetime Limited, unlimited miles.

Electrical: Elite Touch module components shall be for Ten years or 100,000 miles.

AXALTA Paint: shall be for a period of three years 100% with an additional three years pro-rated for a total of six years with unlimited miles.

Bidder Complies YES _____ NO _____

Fuel

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

Bidder Complies YES _____ NO _____

BODY STYLE

The module body shall be designed and fabricated with the following key elements in mind:

1. The greatest possible load carrying capacity.
2. The safety of all EMS providers and patients shall be of paramount concern.
3. The body design, including construction materials and fabrication techniques shall be proven to be durable.
4. The ambulance body shall be easily retrofitted to a new chassis.
5. The manufacturer shall have a separate facility to complete refurbishments and remounts.
6. The ambulance body shall meet all current testing requirements available.

The ambulance manufacturer shall design and construct its own bodies, and maintain a design staff at its manufacturing facility. Vehicle manufacturers who design and build their own bodies and who have the expertise within their facility will possess a greater capacity to handle a custom project of this type and insure a finished product of the highest standards and quality.

Bidder Complies YES_____ NO_____

The body exterior shall be a minimum of 171-3/4" 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 approximately 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, 2017 model year or newer.

Bidder Complies YES_____ NO_____

The engine shall be a 6.8L Triton V10 Gasoline Engine 305 HP and 420 ft-lb Torque.
The transmission will be the 6-Speed TorqShift Automatic.

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 axle will be 5,000

Rear axle will be 9,600

Bidder Complies YES_____ NO_____

The fuel tank shall be 55 gallons.

Bidder Complies YES_____ NO_____

The cab interior shall have OEM heavy duty rubber flooring.

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. The sway bar shall be a minimum of 38 mm. 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. Phoenix brand is preferred.

Bidder Complies YES_____ NO_____

Spare Tire

The OEM spare tire shall be shipped loose.

Bidder Complies YES_____ NO_____

Side View Mirrors

Velvac Model 2020XG heated and motorized side view mirrors shall be supplied. Mirrors shall be black in color.

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 Polyurethane covered open top box large enough to accommodate the hand held spot light shall be supplied.

Bidder Complies YES_____ NO_____

Driver's Console

A custom driver's control panel console shall be installed. This console shall be designed to allow easy access from either

cab seat. This console shall be manufactured out of wood and a color coordinated laminate. The radius corners shall be an aluminum extrusion. The console shall include a switch and siren area, radio control area, map storage, and cup holders.

Bidder Complies YES_____ NO_____

Map Light

A flexible shaft LED map light with switch shall be mounted on the passenger's side of the console for use by the seated passenger.

Mounted On The Passenger's Side Of The Front Console.
(Federal LF12ES-LED Littlite).

Bidder Complies YES_____ NO_____

Rear Tire Chains

The ambulance vehicle shall have On-Spot Tire Chain system installed. Shall include a guarded style switch mounted on the console, and a polyurethane covered cage and shelf for the compressor.

Specify Switch Location: Cab Console on Driver's Side. MOUNT ON TOP FLAT AREA
(Switch Included)

Specify Compressor Location: P-4

Bidder Complies YES_____ NO_____

Battery

The ambulance shall be equipped with dual yellow top Optima batteries. The batteries shall have a minimum of 750 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:

Alarm to Sound When the Unit Is Placed into a Drive Gear and Parking Brake is engaged.

Bidder Complies YES_____ NO_____

Theft Protection

An ignition override theft protection device shall be supplied and installed. The Tremco police package anti-theft system simply locks the shift lever in the park position every time the vehicle is put in park. To unlock the shift lever, the officer has to depress the hidden foot actuator. The system is equipped with a buzzer that will sound when the shift lever can be moved. The system also has an "on-off" switch on the control box. This has been provided so the system can be shut off and the vehicle can be returned to its normal state.

Bidder Complies YES_____ NO_____

Cab Dome Light

Install a Sound-Off #ECVDMLTAL00 White/Red LED Dome Light over passenger seat. The red/white lights in the cab will be controlled by the switch on the light. No switch in the front control panel.

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 PSI.

Bidder Complies YES_____ NO_____

Skin to Support Attachment

All exterior aluminum body panels shall be attached to the underlying structural supports via high performance two sided tape. The tape shall consist of acrylic foam which is viscoelastic in nature. Viscoelastic means the foam absorbs energy and relaxes stress, as compared with other types of foam core tape. The tape shall also provide for an environmental resistance creating a strong durable bond. The tape shall be used as an insulating agent to hold the panels tightly against the structural supports, thus eliminating vibration and oil-canning. In addition to the tape attachment system, all panels shall be welded to structural members at the perimeter. The use of the tape as described will eliminate heat distortion without damaging the structural integrity of the module body. Methods of panel attachment that utilize rivets will not be acceptable.

Bidder Complies YES_____ NO_____

Module Mounting

The cutaway module shall be mounted using ladder frame cross members and OEM rubber spacers with steel sleeves. A minimum # 8 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 shall meet all OEM 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 PSI). A minimum 2" x 3" x .188" aluminum triple hollow tube shall be installed fore and aft of the rear wheel well housings. The rear of the module shall also incorporate a 2 x 3 tube.

Bidder Complies YES_____ NO_____

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 five horizontal tube supports that will provide additional protection in the event of a side body impact.

Bidder Complies YES_____ NO_____

Vertical aluminum radius-type corner extrusions, of a hollow core design, utilizing 6063 T6 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. Because the structural integrity of a body is derived in part from the corner posts, corner posts that are a part of the exterior body skin (e.g. rolled corner posts) will not be considered.

Bidder Complies YES_____ NO_____

All compartment and patient door jambs must be separate from the body skin and must be fully welded to a minimum 2" x 2" x .125" 6063-T6 extrusion. At the rear of the body a minimum 2" x 3" x .125" 6063-T6 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 jamb trim shall also be welded on the interior side where each door pin is located. The fully welded door frames shall provide additional protection in the event of an impact.

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 6" 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 6" 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 "X" type, hollow core design. All roof rail extrusions shall be 6061-T6 alloy. No radius corners consisting of a rolled sheet will be accepted.

Bidder Complies YES_____ NO_____

The horizontal roof extrusions shall incorporate an extruded drip rail on all four sides of the body. The roof shall be crowned 1/2" to facilitate water runoff. 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 triple hollow 2 x 3 x .188 tube shall be placed fore and aft of the wheel well for added strength and support. A 2 x 3 x .125 tube shall be placed at the forward most end and a 2 x 2 x .25 tube shall be placed at the rearward most end. A minimum 2 x 2 x .25 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. The insulation shall be glued in place.

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.

Bidder Complies YES_____ NO_____

KKK Package

To assist in meeting the federal procurement specification - KKK-1822-F the following components shall be included:

- Oxygen Regulator
- 2, five pound fire extinguishers
- Oxygen wrench
- 40oz or better Heavy Duty Seating Vinyl
- 3/4" White Reflective around entry door extrusions
- Lock on Cab to Module Door or Window, lockable from cab side

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 to allow for full seat travel and a slight recline of the seat back. The rear cab wall shall be made of 7-ply marine-grade hardwood plywood and covered with a .050" aluminum panel wrapped in heavy-duty vinyl.

With A Total Of 6" Recessed Area.

Note: Driver's side only.

Bidder Complies YES_____ NO_____

Pass-Thru Window

A chassis cab to modular pass through entrance to the patient compartment shall be provided. It shall be a minimum of 18" wide. This entrance shall have a sliding window/door that latches open and closed only from the cab side. The track provided shall be rattle free operation. The window/door 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 a one-piece stainless steel wheel well trim ring installed around the rear body cutout above the rear wheels. These trim rings 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. Fastener inserts shall be applied between the fender and the modular body. FORMED SHEET METAL, RUBBER, OR FIBERGLASS FENDERS ARE NOT ACCEPTABLE.

Bidder Complies YES _____ NO _____

Fuel Fill Door

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. A C.P.I. locking fuel door shall also be installed.

Bidder Complies YES _____ NO _____

*****MODULE DOORS AND WINDOWS*******Module Door Design**

Door panel separation, dirt accumulation at seams, paint imperfections, misalignment and malfunctions where the door cannot be operated have been identified in many styles of door construction. These problems, along with the heavy use of vehicle doors shall be eliminated by using a process that includes an extruded, pan formed construction.

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 that shall be level with the exterior wall skin. 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 skin. The door facing and the edge shall be a single .125 skin. 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 Nader 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.

Seals shall be mounted in a way to protect them from abuse. All door latch Nader 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 (Nader 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 wide stainless steel hinge with a .250" pin. The hinge shall have an ultimate strength of 4,400 lbs. per every twelve inches.

Bidder Complies YES_____ NO_____

Hinges shall be slotted for adjustment and attached to the door with .250" stainless steel Truss head 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.

Bidder Complies YES_____ NO_____

Module Entry Door Reflectors

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

One mounted at the top and one mounted at the bottom.

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 Black/Yellow Safety Anti-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, bronze-chrome tinted safety plate window in an aluminum frame.

Bidder Complies YES_____ NO_____

Rear Module Doors

The ambulance module shall have a minimum of 56 inches of pass thru height at rear doors. The rear doors shall also have Grabber style hold opens with replaceable rubber catches. The Cast Products "Grabber" style hold opens shall be installed on each door with the appropriate socket being installed on the rear body wall attached to a 2 x 2 aluminum support tube.

Bidder Complies YES _____ NO _____

Rear Entry Door Window

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

Bidder Complies YES _____ NO _____

Door Latches

Doors shall be equipped with free float handles with chrome Exterior and Black Pocket. (A Tri-Mark 030-18 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

Rear Entry doors will have a primary and secondary exterior and interior door paddle latch.

Bidder Complies YES _____ NO _____

Secondary Emergency Door Release

All Entry doors to have (2) secondary release latches each installed. The intended purpose of these latches is in the event of an accident/rollover, there is a direct release of the doors latching mechanism for a safe and quick egress.

Specifications they must follow:

- Must be cycle Tested a minimum of 500 cycles
- Frozen linkage load test: freeze latch trip lever
- Impact test
- Torque test on mounting fasteners.
- Extreme temp function test
- Corrosion Test: 500 hours
- Must meet FMVSS 206
- Must Meet FMVSS 302

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.

Bidder Complies YES_____ NO_____

Door Panels

Each modular entrance door shall have removable .100" aluminum inside access panel to facilitate latch adjustment or repair. The lower interior panel shall be .100" smooth aluminum plate for chevron installation. The upper interior door panels shall be .100" aluminum covered with laminate. They shall be recessed into the door extrusion and attached using 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. Interior door panels that are not recessed could have sharp edges and increase the probability of contamination by blood borne pathogens. The use of self-tapping fasteners or rivets will not be accepted. No Exceptions.

Bidder Complies YES_____ NO_____

Door Trim

There shall be stainless steel trim installed on the hinge side of the door extrusions.

Specify Location:

- (1) D-3 Compartment Outer Door Edge. (On door)
- (2) P-5 Compartment Inner & Outer Door Frame Edge up to 1st shelf to wrap entire door frame near wall #1

Bidder Complies YES_____ NO_____

Step Well Dri-Dek

The side entry patient door step shall have black Dri-Dek installed and include a drain plug located beneath.

Specify Color: Black

Bidder Complies YES_____ NO_____

*****EXTERIOR COMPARTMENTS*******Module Exterior Compartments**

The exterior compartments shall be formed from a minimum .090" aluminum sheet. 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_____

Module Door Design

Door panel separation, dirt accumulation at seams, paint imperfections, misalignment and malfunctions where the door cannot be operated have been identified in many styles of door construction. These problems, along with the heavy use of vehicle doors shall be eliminated by using a process that includes an extruded, pan formed construction.

Module Compartment Doors

All doors shall be a minimum of 3" thick, framed by aluminum extrusions of labyrinth design. The door jamb 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. The door frame extrusion shall be level with the side and rear body skin. 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 door facing and the edge shall be a single .125 skin. All doors shall include 2" foam plank insulation. Doors that employ square tube and box pan sheet construction are not acceptable.

The compartment door jamb shall be welded to a minimum 2" x 2" tube. The door jamb 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 tapped into a quarter inch of 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 to easily grip 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 keyed alike and lockable with a double bit key.

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 truss head bolts for easy removal and cleaning. The truss head bolts shall be mated with a machine applied nutsert. 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 Nader pins.

Compartments requiring double doors shall provide frame latching for the second door. Doors that latch to each other shall not be acceptable. 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.

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

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_____

Door Panels

All compartment interior door panels shall be polished diamond plate aluminum. They shall be recessed into the door extrusion and attached using 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. Interior door panels that are not recessed could have sharp edges and increase the likely-hood of contamination by blood borne pathogens. The use of self-tapping fasteners or rivets will not be accepted. No Exceptions.

Bidder Complies YES_____ NO_____

Door Switches

Door jamb switches for interior lights, exterior compartment lights, door ajar lights and rear load lights shall be magnetic style with ground wire trigger activated relays. This method of wiring eliminates hot wires running into door jams and therefore any amp load on the switch itself.

Bidder Complies YES_____ NO_____

Exterior Compartment Lining

All exterior compartments shall be lined with a blended component polyurethane/polyurea 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 | 55 + |
| 2. | Tensile Strength | 3,025 PSI |
| 3. | Elongation at Break | 275% |
| 4. | Tear Strength | 475 PLI |
| 5. | Compaction/Impact Factor | 52,000 PSI |

This material shall be sprayed on all exterior compartment surfaces and finished in a mottled texture to minimize slippage; it shall provide a water/air tight seal and superior noise suppression. The polyurethane/polyurea 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 LED strip lighting.

- Ultra-thin 3/16" strip
- 12VDC Not to draw any more than .40A per yard (white)
- 30 Lumens per LED
- Low-Profile surface mount adhesive design
- High flexibility conforms to irregular surfaces

- Over 50,000 hours of life
- High quality LED's don't change color over time
- 180 Degree output
- 10 Year Limited Warranty

Bidder Complies YES_____ NO_____

Compartment Vents

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

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. NO EXCEPTION ALLOWED.

Bidder Complies YES_____ NO_____

P1 Curbside Compartment

The Curbside front inside/outside compartment shall be full height. Make the pass-thru as wide as possible.

Bidder Complies YES_____ NO_____

Compartment Shelves

The inside/outside right front cabinet shall have three adjustable PVC shelves.

Bidder Complies YES_____ NO_____

Cabinet Lining

The inside/outside right front cabinet shall have a smooth interior laminate lining.

Bidder Complies YES_____ NO_____

P2 Battery Compartment

There shall be a curbside front exterior battery compartment with slide out tray. The tray shall have a lockable latch on each side. It shall be capable of holding a minimum of two batteries. The vertical hinge side of the door shall have a stainless guard attached.

Bidder Complies YES_____ NO_____

P4 Curbside Utility Compartment

There shall be a curbside lower skirt compartment behind the rear wheel well.

Bidder Complies YES_____ NO_____

P5 Curbside Rear Backboard Compartment

There shall be a curbside rear backboard compartment with the backboard storage on the door.

Bidder Complies YES_____ NO_____

D1 Streetside Oxygen Compartment

There shall be a full height streetside front storage compartment. Width Adjusted For ZICO Lift.

Bidder Complies YES_____ NO_____

D2 Streetside Compartment

There shall be a double door streetside front intermediate storage compartment.

Bidder Complies YES_____ NO_____

D3 Streetside Rear Compartment

There shall be a 3/4 height double door streetside rear storage compartment.

Bidder Complies YES_____ NO_____

Compartment Shelves

There shall be four (4) diamond plate adjustable shelves installed. Each shelf shall have two inch lips and ribbed rubber shelf matting.

Diamond Plate with Standard 2" Lips.

Specify Compartment:

(1) D-3 Compartment Above the SCBA Brackets.

Full Height Shelf Tracks.

(3) P-5 Compartment above the Stair Chair Level.

Depth Adjusted Due To Boards On The Door.

Bidder Complies YES_____ NO_____

Vertical Divider

There shall be one (1) fixed .125 inch polyurethane/polyurea covered aluminum vertical divider(s).

Specify Compartment:

(1) D-2, Full height x full depth, as close to Wall #3 as possible, to allow pull-out trash to clear compartment door.

Bidder Complies YES_____ NO_____

Horizontal Divider

There shall be two (2) fixed .125" polyurethane/polyurea covered aluminum horizontal divider(s).

Specify Compartment:

(1) D-1 Compartment above the Oxygen Tank Lift.

(1) D-2, 11" high. From wall #1, to full height divider, as close to door sill as possible.

Bidder Complies YES_____ NO_____

Inside/Outside Compartment

The following compartments shall have inside/outside access.

Specify Compartment:

(1) P-5 Compartment above the Stair Chair Level.

Special Note:

Use a 3/8", Heavy Polycarbonate Door, doubled hinged on the interior. Double M1 latches.

Bidder Complies YES_____ NO_____

Mounting Hooks

There shall be two "Ferno J" hooks installed for Ferno stair chair.

Specify Compartment Location:

(1) D-3, Wall #1, Up High for Turn-out Gear.

(1) D-3, Wall #3, Up High for Turn-out Gear.
These are to be just below the shelf. Double Plate these areas.

Bidder Complies YES_____ NO_____

Compartment Straps

Five (5) compartment(s) shall have a set of 2" equipment straps installed.

Specify Compartment Location:

- (1) D-1 from wall #1 to wall #3, mid-height near door frame. (Velcro Strap, No buckle)
- (1) P-5 Door IATS.
- (1) P-5 Compartment on Wall #2 for the Stair Chair.
- (1) Ship Loose for Dealer Installation in D-2 from Wall #1 to Full Height Vertical Divider.
- (1) Ship Loose for Dealer Installation across interior lower walk-thru cabinet.

Bidder Complies YES_____ NO_____

Compartment Door Backboard Storage

A full height exterior compartment shall include a custom inner door panel with backboard brackets. The door panel brackets shall have the ability to store a minimum of two backboards. The brackets shall be adjustable and be polyurethane/polyurea coated.

Custom Back Board Brackets On the Compartment Door ILOS.

Includes Two Vortex Covered Boxes for Boards.

Upper Section Mounted With Adjustable Track.

Upper Section Is Open On The Top.

Lower Section Is Fixed.

Lower Section Is Open On The Leading Edge Side.

Boxes Are 6" Deep (ID) x 5" High (ID) x 18" Wide (ID) ILOS.

Includes Center Section 2" Wide Seat Belt Style Strap.

Install The Short Strap In The Outer Most Position.

VORTEX only the interior surface of the boxes.

Leave the exterior surface smooth for customer installed Scotchlite.

Specify Compartment: P-5

The bottom box will have to have the upper outboard corner notched to miss the door pin.

Bidder Complies YES_____ NO_____

Double Plate Wall

Reinforce a compartment wall for SCBA brackets to be installed by the dealer.

Specify Compartment: D-3 Compartment On Wall #2.

Install At Approx. Walk-Away Height.

Specify S.C.B.A. Brand: Scott Air Pak Fifty 804935-1003.

Specify Tank Pressure Rating: 4500.

Specify Tank Minute Duration: 30 Minute.

Also double plate the area for the two Ferno "J" brackets.

Bidder Complies YES_____ NO_____

Fixed Shelf for Fire Extinguisher

Add a fixed shelf, 6" x 6" centered on wall #2 about 6" up from floor of D3 compartment to raise large fire extinguisher on wall to allow space below for boots. No supports underneath.

To be welded in prior to Vortex Lining so make sure and include that in the notes and provide weight of the fire extinguisher that it needs to hold.

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 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. The entire assembly shall be spaced out from the rear kick plate a minimum of one inch.

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 .125 aluminum diamond tread with all corners TIG welded. The outboard sections shall be level with the open face "grip strut". The outside corners of the covers shall be tapered 15 degrees to minimize bumper dragging. Two (2) tow hooks shall be installed under each bumper pod and attached to the bumper frame.

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_____

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

Lower Side 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 with welded on grip strut plates 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.

Bidder Complies YES_____ NO_____

LED Running Board Lights

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

Part# 20COCDCD

Lights Are Mounted With 2GROMMET Grommets

Includes Deutsch Connectors

Bidder Complies YES_____ NO_____

Mud Flaps

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

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 probability of corrosion from dissimilar metals.

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_____

Diamond Plate around Wheel Well Area

Install Diamond Plate Around The Wheel Well Area on both Curbside and Streetside. Join with fuel fill area.

Bidder Complies YES_____ NO_____

*****ELECTRICAL SYSTEM*******Electrical Control Systems Requirements**

A Microcomputer and Microprocessor based electrical system with driver's and attendant's control centers shall be supplied and installed by the ambulance manufacturer. Only systems manufactured independently will be considered. No systems manufactured by the ambulance manufacturer will be considered.

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.

Bidder Complies YES_____ NO_____

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_____

The electrical system shall be a "Touch Pad" System or an equivalent. The technology used is to preserve the life of the system by removing current loads before it disconnects. The display shall be easy to read with a minimum character of eight points, or graphical icons that indicate function.

Bidder Complies YES_____ NO_____

The electrical system shall have as standard a password Secured self-contained Wi-Fi module. This Wi-Fi module will host its own web page accessible from any Wi-Fi enabled device. The web page will allow access

- the power locks,
- climate control
- perimeter flood lights
- "Real time" access to the status of each input and output in the system.
- Maintenance and instructional videos
- Scheduled maintenance reminders
- System event log.

Bidder Complies YES_____ NO_____

The electrical control system shall include "one touch" technology. This technology will allow simple activation at 360 degree contact of all switches.

Bidder Complies YES_____ NO_____

The system shall afford the manufacturer the opportunity to customize, the flexibility to expand, and shall control power distribution and system monitoring requirements.

Bidder Complies YES_____ NO_____

The system shall be scalable and allow the OEM the ability to expand the number of outputs. The expansion of the system will be accomplished through the addition of output modules.

Bidder Complies YES_____ NO_____

The system must allow for full programmability by the manufacturer, where he/she can create and select only the required number of outputs. Programmability shall also include control panel switch placement. The system must have real time monitoring of all critical functions.

Bidder Complies YES_____ NO_____

The system must have the following protections built in:

- Full reverse voltage protection
- Full RFI protection
- Full over voltage protection
- Full transient protection
- Full under voltage protection
- Protection during a brown out voltage scenario
- Protection during slow rise or recovery mode

- Protection against voltage stutter
- Protect from failure of relay boards.

Bidder Complies YES_____ NO_____

The system will be thoroughly tested to assure dependability in a variety of different elements. The testing shall include the following:

- 1 - Thermal Stability Testing to include; non powered resistance to cold testing, low temperature operating testing and high temperature operating testing.
- 2 - Highly Accelerated Life Testing to meet standards; MIL-STD-810G and SAE J1455.
- 3 - Highly Accelerated Stress Screening to meet standards; MIL-STD-810G and SAE J1455.
- 4 - Thermal Shock Testing meeting standards; MIL-STD-810G Method 503.5 and IEC 60068-2-14.
- 5 - Vibration Testing meeting standards; MIL-STD-810G Method 514.6, SAE J1455, and ISO 16750-3.
- 6 - Mechanical Shock Testing meeting standards; MIL-STD-202G Method 213B, and ISO 16750-3.
- 7 - Immersion Testing meeting standard; ISO 20653.
- 8 - Controls Durability Testing including; set Duration, Actuation Force, Cycle Rate, Temperature, Operational Status, Monitoring and Test Criteria.
- 9 - Fluid Contamination Testing meeting standards; SAE J1455 and MIL SPEC 461F.
- 10 - Salt Spray testing meeting standards; MIL-STD-810F and Method 509.4 ASTM B117.
- 11 - Dust Testing meeting standard; MIL-STD-810F.
- 12 - Power/Temperature/Humidity Testing to meet standard; MIL-STD-810F.
- 13 - Solar Radiation Testing meeting standards; SAE J1960 and ASTM G 155.

Bidder Complies YES_____ NO_____

The Power Modules shall have solid state current limiting protection.

Bidder Complies YES_____ NO_____

The system must survive the initial crank voltages without experiencing a computer reboot down to seven volts.

Bidder Complies YES_____ NO_____

The system start to ready to function duration shall not exceed twenty seconds. The system start shall be activated by cab door open circuit, or remote activation.

Bidder Complies YES_____ NO_____

Each output Module shall be equipped with its own diagnostic LED's including Communication Status, Module Status and Output Status LED's. These LED's are useful in quickly determining the status of each output.

Bidder Complies YES_____ NO_____

There must be multi-leveled brightness and audio controls. Operating temperature range must be from -40 F to 158 F. Screens must connect to system network via a 2 conductor cable using "J 1939 CAN" protocol.

Bidder Complies YES_____ NO_____

Serviceability

The System shall include:

- Easy to read diagnostic LEDs allowing the user to determine if the system is functioning properly. These will include Input status, Module status and Output status LED's.
Components that are easily exchanged with minimal work for the service personnel.
- Output Modules that are interchangeable without the need for reprogramming to aid in ease of repair and reduction in parts inventory.

- A main electrical compartment containing all main electrical components for ease of trouble shooting and repair.

Bidder Complies YES_____ NO_____

The control modules shall be protected by fuses and high current outputs utilizing solid state protection. The system must be allowed to sense a fault and shut off the appropriate output. Once a fault is repaired it shall reset by the system toggling off and back on.

Bidder Complies YES_____ NO_____

The Main Info Center-Message Center shall include:

- Volts Display (standard)
- Shore Power Indicator
- Over-current event Indication
- Compartment Open
- Module Door Open
- Emergency Master
- Module Disconnect

Bidder Complies YES_____ NO_____

All wiring and cable assemblies shall be totally encased in protective, convoluted, high temperature, 300-degree flame resistant, automotive type, and polyethylene loom or equivalent braiding. Wiring which is routed near potentially sharp edges shall be protected by grommets or edge guard material.

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. 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.

Bidder Complies YES_____ NO_____

All wiring used shall be copper with GXL thermoplastic insulation rated to 125 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 an exclusive wire terminal interior cabinet. This exclusive interior electrical cabinet shall limit the access by EMS providers and provide a clean/dry environment for all electrical control components.

Bidder Complies YES_____ NO_____

The completed ambulance must meet or exceed AMD Standard 005 / NFPA 1917 Standard 7.4.1, Ambulance 12-Volt DC Electrical Load Test.

Bidder Complies YES_____ NO_____

A complete Owner's/Operating/Service Manual shall be provided. It shall contain a complete set of wiring schematics of 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(s) 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. 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 Electrical Control 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_____

360-Degree Camera System

There shall be a 360-Degree Camera Monitor System with 7" Brigade Screen installed. Backeye® 360 Select is an intelligent camera monitor system designed to assist low-speed maneuverability by providing the driver with a complete surround view of the vehicle in real time.

Ultra-wide-angle cameras mounted on the front, sides and rear of the vehicle capture the surrounding areas including all blind spots. Simultaneous digital images from these cameras are then processed and 'video stitched' resulting in a 360° bird's-eye view within a single image. The software also instantly eliminates any fisheye camera distortion on the surround view, delivering a clear, real-time picture on the driver's monitor.

Bidder Complies YES_____ NO_____

Rear Touch Pad Controls

There shall be an additional rear touch pad that shall include operation from eight to thirty two volts. Rear touch pad must have complete HVAC (heating and air) controls. There shall be a display screen for O2, temperature and fan speed.

Specify Mounting Location: Over head-end of curbside squad bench

Includes:

(1) Rear Display Screen for O2, Temp & Fan Speed

Bidder Complies YES_____ NO_____

Additional Carling Switch

There shall be one (1) carling switch(s) provided with the following functions in the following locations.

Specify Location(s): Mounted On The Primary Rear Loading Door ILOS.

Specify Functions: Momentary disable switch for rear load lights.

Bidder Complies YES_____ NO_____

Reverse Activated Alarm

The backup lamp switch shall be a cut off for the backup 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. The model shall be an ECCO 575 back up alarm.

Bidder Complies YES_____ NO_____

Ejector Type Shoreline

A 20 amp Kussmaul 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 125 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 125 VAC and shall be provided with a mating plug.

The interior duplex outlets shall have indicator lights at each outlet to indicate when 125 VAC power has been applied. Outlets shall be marked "125 VAC".

Specify Location: Kussmaul Plate over D-2

Specify Inlet Cover Color: Yellow

Bidder Complies YES_____ NO_____

Shoreline Indicator

An indicator "ON" Whelen OS Series Non-Flashing (Red) light shall be supplied and mounted above or near the shoreline inlet.

Mounted Above Or Near The Shoreline Inlet. (Red LED).

Whelen "OS" Series Non-Flashing Is the Std. Light

Bidder Complies YES_____ NO_____

Inverter

A Vanner model number 20-1050 CUL, 1050 watt inverter with 55Amp 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 Charger Display Location: Driver's side of console

Specify Remote Inverter Display Location: Action Area

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 main action area, cigarette type connector of the following designation, ms3112e12-3s. The polarity of the connector shall be as follows: pin a- + 12v, pin b - ground and pin c - not used. One (1) mating-plug shall be furnished and shall be ms3116f12-30. Mating plug shall be tagged with polarity requirements.

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 interior cabinet 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 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_____

12 Volt Outlet

This separately protected circuit shall have three (3) additional Cigarette style connector(s) added. A mating-plug shall be furnished. Mating plug shall be tagged with polarity requirements.

Specify Location:

- (1) Action Area near CPR Seat IATS.
- (1) Upper Section of the R.F.S. Cabinet on Wall #1.
- (1) D-3 Compartment above the Shelf on Wall #1.

Bidder Complies YES_____ NO_____

125 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 125v AC power has been applied. The outlet shall be labeled "125v AC". This 125v AC system, including wiring and associated equipment, shall comply with AMD Standard 009.

Bidder Complies YES_____ NO_____

125 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 125v AC power has been applied. The outlet shall be labeled "125v AC". This 125v AC system, including wiring and associated equipment, shall comply with AMD Standard 009.

Bidder Complies YES_____ NO_____

125 Volt Outlet

Five (5) additional Interior duplex outlet(s) shall be installed in the vehicle. An Indicator light shall be included at the outlet to indicate when 125v AC power has been applied. The outlet shall be labeled "125v AC". This 125v AC system,

including wiring and associated equipment, shall comply with AMD Standard 009.

Specify Location:

- (1) Forward in the LRO Cabinet. Wall #3
- (1) Action Area near CPR Seat IATS.
- (1) Upper Section of the R.F.S. Cabinet on Wall #1.
- (1) Aisle Side of the R.F.S. Cabinet, Just Above the Counter Top.
- (1) Top RFS Cabinet, wall #1.

Bidder Complies YES _____ NO _____

USB Charging Port

There shall be two (2) USB Dual charging Port (s) installed. These are a quick and easy way to recharge electronic devices. This 2-port USB car charger allows you to charge two devices charging and powered at once. The dual USB car charger will support two devices giving you more mobility and functionality directly from your car port with accessible power directly from you power outlet receptacle.

- Can be mounted with, or without faceplate
- USB outlet and charger for automotive applications
- Input Rated: 12 or 24 volt DC
- Output: USB socket - 5 volt, 2.1A Max
- 32°F (0°C) to 140°F (60°C)
- Ground tab: .250" quick disconnect male tabs
- 29 mm mounting hole diameter
- See data sheet for dimensions and mounting specs.
- Works with standard phone charging protocols. May not work with some tablets or other devices. Three AMP max output allows charging of both an IPAD and IPHONE at the same time. With built-in LED indicator to indicate device is powered. Designed for easy installation. It is reverse polarity protected and can be connected to 12V switched ignition or directly to a battery.

Specify Location:

- (1) Cab Console to the right of the touch pad.
- (1) Action Area

Bidder Complies YES _____ NO _____

Heat Controlled Cabinet

A 12 volt Smithworks IV fluid warmer tray shall be installed and mounted in an interior cabinet.

Specify Cabinet Location:

- (1) Floor Of Rearward L.F.O. Same as #3889.
- Circuit Is Wired 12 Volt Full Time Hot.

Bidder Complies YES _____ NO _____

Power Door Locks

Side entry & rear entry doors shall have power locks installed. These power locks shall be activated from the OEM cab area and be thermally protected with a pulsed signal.

Bidder Complies YES _____ NO _____

Power Door Locks

Five (5) designated exterior doors shall have power locks installed. These power locks shall be activated from the OEM cab area and be thermally protected with a pulsed signal.

Door Locks Are Wired Thru The O.E.M. Door Lock Switches.

Door Locks Are Thermally Protected With Pulsed Signals.
Specify Compartment Location: D-1, D-2, D-3, P-1, P-5.

Bidder Complies YES_____ NO_____

Power Door Lock Switch

A hidden, power door unlock switch shall be installed in the grill area.

Bidder Complies YES_____ NO_____

Power Door Lock Switches

Two (2) interior body power door lock switch(s) shall be installed. It shall use a pulsed signal and provide both lock and unlock for all designated doors.

Specify Location:

- (1) Low on the right wall above the head end of the curb side squad bench.
- (1) Primary rear entry door, inner door panel.

Bidder Complies YES_____ NO_____

Remote Door Lock Key Fobs

Ambulance shall include two remote entry key fobs.

Bidder Complies YES_____ NO_____

Flashlight Circuit

There shall be six (6) 12 volt relay controlled power and ground circuit(s) for each flashlight.

Specify Location:

- (1) Cab Side of Bulkhead Wall near Ceiling. (Passenger Side)
- (1) Cab Side of Bulkhead Wall near The Floor. (Passenger Side)
- (1) Inside Top R.F.S. Cabinet, wall #1.
- (2) D3 Compartment, Wall #2 between SCBA Brackets.
- (1) Over lower walk-through cabinet, curb side, just under HVAC unit.

Bidder Complies YES_____ NO_____

Flashlight Circuit

There shall be three (3) 12 volt relay controlled power and ground circuit(s) for each flashlight.

Wire hot to batteries for Knox Box, KeySecure & Med Vault. See #65-DL-0300, #65-DL-0400 and #65-DL-0500 for locations.

- (1) Behind Drivers Seat.
- (1) Action Area below Med Vault.
- (1) Action Area for Med Vault.

Bidder Complies YES_____ NO_____

DVR System

There shall be an Advanced Solid State Mobile Video Recorder to be installed in the auxiliary electrical cabinet. Its removable recording host can store images over a long time frame.

This DVR provides four video inputs and two audio inputs, and provides all of the practical and useful features you can rely on. Four alarm inputs, two alarm outputs: the alarm input is triggered by (a) bus doors opening or closing, (b) lights signaling a vehicle's direction changes, (c) sirens on police cars, and (d) pressing the help button to signal distress. The two alarm outputs allow devices such as lights or audible alarms to be activated by an alarm input.

» Record capabilities: D1 at 30 FPS 4 channels

- » Built-in GPS capabilities
- » H.264 compression
- » SD storage
- » Digital zoom, ×2 & ×4
- » Sensor inputs for speed and ignition

To record patient camera ONLY.

Specify location: Top RFS Cabinet.

Program all (3) Elite Touch Pads with a RECORD button.

Use the AUX buttons in both rear panels for recording and add a Carling Switch on the driver's console that is marked DVR RECORD.

Bidder Complies YES _____ NO _____

Recording Light

This will be a red "OS" Light that when the DVR is powered the light will come on. The DVR will be powered through a button in Elite Touch Pad System in the action area.

The Light will be above the rear patient camera.

Bidder Complies YES _____ NO _____

Audiovox Pedestal Mounted Rear View Monitor/Camera with 2nd Camera Head

Install a VOM74TQ 7" monitor w/ 4 inputs and bracket VOSHD4MNT for the monitor.

LCD Monitor Is Pedestal Mounted In The Cab ABOVE THE REARVIEW MIRROR.

(1) Voice Camera Is Surface Mounted Above The Rear Doors.

(Set The Camera Up For Back-Up Mode).

Specify Location Of 2nd and 3rd Camera:

(1) Patient Camera over Rear Loading Doors Facing Forward.

(1) Bullet Camera on Right Fender wired to right turn signal.

Bidder Complies YES _____ NO _____

Road Safety System

A ZOLL Road Safety RS4000 system shall be installed. The system shall provide real-time proactive driver behavior modification and fleet monitoring specifically designed for the emergency medical services industry.

a) The RS4000 system shall monitor and record the following:

- G-Forces
- GPS
- Vehicle Speed
- Vehicle RPM
- GPS
- Emergency Lights
- Siren
- Driver Seatbelt
- Reverse
- Left Turn
- Right Turn
- Brake
- Back-up Spotter Switch
- Driver ID

b) Provide real-time auditory alerts/feedback to the driver.

c) Offer a proven algorithm to measure speed, G-Force, and other inputs to determine if driver correction is needed, which is provided via an audible warning.

- d) Have the capability to record driver identification through an interface to an electronic driver ID receiver.
- e) The system shall have the capability to transmit four (4) data feeds from integrated Global Position System.
- f) Enforcement of vehicle backing policy through use of back up spotter switches (one switch mounted externally and one on the interior of the patient compartment near the rear doors).
- g) Able to transmit data via third-party cellular modems that meet minimum required specifications (either Ethernet or Wi-Fi), or via Wi-Fi using SSID and password of approved network.
- h) Capability for over-the-air software updates with no physical connection required.

The successful vendor shall include the cost of installation of the above system components but not the final hook up or programming, which shall be provided by Zoll at the end-user's facility after delivery for an additional fee. Zoll shall also provide an in-service training program to the end-user at the time of final hook up.

The system shall include a one (1) year warranty.

Bidder Complies YES_____ NO_____

Road Safety Programmer and ID Tags

In addition the following items shall be included in the bid price, supplied by the successful vendor and shipped loose with the completed vehicle at or before the time of delivery:

RS-2213 R 4000 Driver ID Tag Programmer
 RS-3212-25 RS 4000 Driver ID Tags (Package of 25)

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 Whelen 3" round Super-LED surface mounted 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_____

Interior Lighting

The patient compartment shall be illuminated by eight TecNiq model E08 LC00-1 with chrome trim, 31 diodes, output of 1550 Lumen LED dome lights, recessed into the patient compartment headliner and mounted to a .125 aluminum plate.

The left and right banks of lights shall each have their own "high" and "low" switch positions. The right bank "low" 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 "low" when the battery switch is off.

4-Streetside

4-Curbside

TecNiq# E08-LC00-1

Bidder Complies YES_____ NO_____

Interior Lighting

The patient action area shall have a 12-volt LED strip light installed.

Bidder Complies YES_____ NO_____

Center Strip Lights

The center strip lights shall be (6) surface mounted 3" Whelen #3SC0CDCR Round Super-LED with chrome flange.

- Three Super-LED diodes in aluminum housing, steady burn.
- Moisture & Vibration Resistant
- LED's are rated for 100,000 hours of operation
- Draws 0.3 Amps at 12.8 VDC
- 275 lumens light output
- Shallow depth of 7/16"

Bidder Complies YES_____ NO_____

Light Switching

There shall be an additional on/off switch located in the front cab of the ambulance. This additional switch will be able to activate all the ceiling fluorescent lights from both the front bulkhead wall and the cab.

Specify Carling Switch Location:

(1) Secondary Rear Entry Door Panel

Bidder Complies YES_____ NO_____

Electrical Cabinet Light

Install a TecNiq Strip Light, Inside the Electrical Cabinet, On Wall #3.

Specify Interior Cabinet & Lengths: FULL HEIGHT.

Wire Circuit Full Time Hot.

SPECIAL NOTE: This Light Is Wired To An Electrical Cabinet Door Switch. Use Plunger Style Door Switch. No On/Off Switch

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.

Mount In The Center Section Of The Rear Head Cushion.

("OS" Series Red LED).

Bidder Complies YES_____ NO_____

Interior Light

The rear head cushion shall include chassis turn light indicators. These amber lights shall be recessed into the rear head cushion and mounted to a .125 aluminum plate covered with vinyl.

Mounted On Each Side Of The Rear Head Cushion.

("OS" Series Amber LED).

Bidder Complies YES_____ NO_____

Check-Out Light Timer

Add a Spring Loaded Dial Manual Timer IATS Carling switch for Check-out Light Timer. Install over head end of squad bench.

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 #60BTT Lights (Meets SAE Requirements).

Mounted Above The Rear Kick Plate.

Set to Stutter-Flash.

Bidder Complies YES_____ NO_____

Rear 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_____

Front 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: Just under outboard front 900 lights.

Wire To Flash Sequentially In The Direction Of The Arrow.

Bidder Complies YES_____ NO_____

License Plate Housing

The rear license plate housing shall be a Cast Products or comparable housing. It shall include two clear LED license plate lights.

Bidder Complies YES_____ NO_____

Back-Up Lights

There shall be Whelen 600 Series "LED" populated backup lights with chrome trim bezels installed.

Mounted in kick plate ILOS.

Model #60C00WCR Maximum Intensity

Bidder Complies YES_____ NO_____

Rear Load Lights

There shall be two reverse activated, Whelen 24 Diode #9SC0ENZR 900 series LED rear load lights with chrome trim bezels installed. These lights shall also be controlled by the front and or the rear control panel.

Bidder Complies YES_____ NO_____

Side Scene Lights

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

Bidder Complies YES_____ NO_____

Brake Lights

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

Specify Light Location: Rear Window Level

Bidder Complies YES_____ NO_____

Compartment Door Lights

Twelve (12) Surface Mounted 3" Round Super-LED compartment door flashing light.

LED & Lens Color to be:

- Three Super-LED diodes in aluminum housing, steady burn.
- Moisture & Vibration Resistant
- LED's are rated for 100,000 hours of operation
- Draws 0.3 Amps at 12.8 VDC
- 275 lumens light output
- Shallow depth of 7/16"

Specify Location(s):

Part # 3SR00FRR Specify LED & Lens Color: Red

Specify Location:

- (1) D-1 Compartment on the Lower Inner Door Panel.
- (1) D-1 Compartment on the Upper Inner Door Panel.
- (1) D-2 Compartment on the Upper Inner Primary Door Panel.
- (1) D-3 Compartment on the Lower Inner Primary Door Panel.
- (1) D-3 Compartment on the Upper Inner Primary Door Panel.
- (1) P-1 Compartment on the Lower Inner Door Panel.
- (1) P-1 Compartment on the Upper Inner Door Panel.
- (1) P-3 Door on the Lower Inner Door Panel.
- (1) P-3 Door on the Upper Inner Door Panel.
- (1) P-5 Compartment Inner Door Panel Mounted Vertically Along The Outside Edge Of The Long Board Storage Area.
- (2) R-1 Doors On the Lower Inner Door Panels.

ALL OF THESE LIGHTS TO INSTALLED TOWARD THE OUTER CORNERS.

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 exterior ambulance body ICC lights shall be Weldon model number 9186-1500-10 (red) and 9186-1500-20 (amber).

They shall include a stainless guard.

Bidder Complies YES_____ NO_____

Rear DOT Clearance/Brake Light

There shall be a red Innovative Slimline light mounted above the rear doors. Unless otherwise specified, it shall be mounted above the drip rail. The mid sections are to be wired thru the brake light circuit.

Mounted Above The Rear Doors.

Mounted Above The Drip Rail Unless Otherwise Specified.

Mid Sections to Be Wired Thru the Brake Light Circuit.

Bidder Complies YES_____ NO_____

Front DOT Clearance Light

There shall be a front amber Innovative Slimline light center mounted above the drip rail.

Mounted Above The Drip Rail Unless Otherwise Specified.

Bidder Complies YES_____ NO_____

Front Scene Light

Add One (1) Whelen #PCPSM1C Pioneer recessed flood/spot light in the front center over cab.

Bidder Complies YES_____ NO_____

Side Scene Lights

Add One (1) Whelen #PCPSM1C Pioneer recessed flood/spot light on each side ILOS 900 Scene Lights.

Bidder Complies YES_____ NO_____

Custom Fog/Driving Lights

Install a pair of PIAA 2190 Xtreme White SMR fog lights wired to the low-beam circuit and a pair of PIAA 2192 Xtreme White SMR driving lights wired to the high-beam circuit and controlled via a single switch marked 'Auxiliary Lights'.

Bidder Complies YES_____ NO_____

Under Body Lights

Switched On By Park/Neutral Circuit ILOS.

Install 9" LED Tube Lights.

(3) LIGHTS PER EACH SIDE.

Lights Spaced Evenly Down Each Side And The Cab.

Bidder Complies YES_____ NO_____

*****RADIO PROVISIONS AND AIR HORNS*******Power Studs**

The ambulance shall include three power point studs located in the interior electrical compartment. The studs shall include a full-time hot, ignition hot, and ground.

Bidder Complies YES_____ NO_____

Air Horn Compressor System

There will be an air horn compressor for (2) Air Horns with reserve tank. Activation shall be from a weatherproof drivers side floor switch.

Compressor Location: P-4 Compartment.

(Include Mesh Cover Over The Pump).

Rubber Button Switch Located on front console to the left of the siren.

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_____

Radio Antenna

One RG58U antenna coaxial cable shall run from antenna access base on 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 Driver's Seat Base.
Coil, Zip Tie & Tag

Bidder Complies YES_____ NO_____

Radio Antenna

Three (3) KE-794 antenna base shall run from antenna access port in the roof of the patient compartment and terminate in the ambulance module. This cable shall have a 36" service loop.

Specify Termination Location:

(1) Mid Module Roof to the Driver's Seat Base.
(1) Mid Module Roof to the Driver's Seat Base.
(1) Rear Module Roof to the Driver's Seat Base.
Coil, Zip Tie & Tag

Bidder Complies YES_____ NO_____

Radio Power

There shall be three (3) 12-volt positive with negative lead provided for radio power. The location of which shall be within the ambulance body. This lead shall be wired through the battery switch.

Full Time Power and Ground and Battery On (Ignition On) Circuits.

Butt Splice Termination Points.

Specify Termination Location:

(3) Behind Driver's Seat Base.
All are 20 AMP 10 gauge power and ground.
Coil, Zip Tie & Tag

Bidder Complies YES_____ NO_____

Radio Cables

Manufacturer shall install six (6) customer-supplied radio cables.

Specify Routing and Termination Location:

(2) cables and (2) ignition wires will be run from behind driver's seat base to the street side action area.
(1) cable and (1) ignition wire will be run from the street side action area to the over the head end of the bench.

Bidder Complies YES_____ NO_____

Power and Ground Wire Only

Run a 16 Gauge 2 conductor wire From Behind the Driver Seat Base to inside the Street Side Switch Panel Cabinet. These Will Not Be Hooked Up To Anything on Either End. Radio installer will use this to bring power from the radio chassis to the control head. Do not connect these wires to any power source.

Bidder Complies YES_____ NO_____

*****SIRENS AND EMERGENCY LIGHTING*****

All Primary/Secondary lights set to comet flash but flash pattern must comply with KKK.

Bidder Complies YES_____ NO_____

Siren

There shall be a Whelen Model number 295 HFSA7 dual amp siren system installed.

Bidder Complies YES _____ NO _____

Siren Speakers

There shall be Federal thru bumper siren speakers installed. The Federal Signal ES100 DynaMax Speaker features the Federal Signal Neo driver for increased performance and reliability. The larger diaphragm of the ES100 allows the speaker to capture lower frequency ranges for a more robust sound. The ES100 is a 100-watt speaker designed to withstand the toughest conditions. The DynaMax is made of black corrosion resistant aluminum housing and is fully encapsulated. Designed for versatility, the ES100 mounts easily into grille, flush between the bumper and hose tray of large apparatus and to most vehicle bumpers. A variety of mounts and brackets are also available to make installation as simple as possible.

Bidder Complies YES _____ NO _____

Side Module Warning Lights

There shall be four Whelen #90RR5FCR 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.

Bidder Complies YES _____ NO _____

Front Module Warning Lights

There shall be two Whelen #90RR5FCR 900 Super "LED" front module warning lights installed on the outer most corners of the module body.

Bidder Complies YES _____ NO _____

Front Module Warning Light

There shall be one Whelen #90CC5FCR 900 Super "LED" center front module warning light installed.

Bidder Complies YES _____ NO _____

Rear Module Warning Lights

There shall be two Whelen #90RR5FCR 900 Super "LED" rear module warning lights installed on the outer most corners of the module.

Bidder Complies YES _____ NO _____

Rear Module Warning Light

There shall be one Whelen #90AA5FCR 900 Super "LED" center rear module warning light installed.

Bidder Complies YES _____ NO _____

Emergency Lights

Emergency lights to turn on in reverse. To include an EL "(emergency light) cancel switch. Specify which Button on the touch screen or flasher circuit is to be activated: Rear Flashing Lights.

Bidder Complies YES _____ NO _____

Upper Grill Lights

There shall be two Whelen #50R02ZCR 500 Series Super LED forward facing grill lights installed.

Bidder Complies YES _____ NO _____

Intersection Lights

There shall be two Whelen #70R02FCR 700 Super "LED" intersection lights installed.

Bidder Complies YES _____ NO _____

Headlight Flasher

Headlights to have "Wig Wag" feature. The "Wig Wag" will flash the right and left headlight alternately.

Add Wig Wag Headlights With Whelen #SSFPOS Flasher.

Disables OEM DRL headlights.

Bidder Complies YES _____ NO _____

Lower Grill Lights

There shall be two (2) Whelen model number 500 "LED" lights installed.

Specify Location: Lower Grille.

Specify Whelen Light Number: #50C02ZCR

Specify KKK or Comet Flash Pattern: COMET

REQUIRES LIGHTS TO BE SYNCED.

FLASH OPPOSITE RED GRILL LIGHTS.

OFF IN SECONDARY.

Bidder Complies YES _____ NO _____

Rear Wheel Well Emergency Lights

There shall be two (2) Whelen model number M6V2 V-Series "LED" light(s) installed.

Specify Color: Red Flashing Light, Comet Flash With K-Pattern.

White light wired to reverse.

Specify Location: Over each rear wheel well

Bidder Complies YES _____ NO _____

Rear Emergency Lights

There shall be 2 Whelen #90RR5FCR 900 Super "LED" lights installed at rear window height.

Bidder Complies YES _____ NO _____

Emergency Lights

There shall be six (6) Whelen model number 900 Super "LED" light(s) installed.

(4) On Front Module Wall between Center White and Outboard Red Lights.

Specify Whelen Light Number:

(2) #90RR5FCR - Red LED With Clear Lens.

(2) #90CC5FCR - White LED With Clear Lens.

FROM DRIVERS SIDE;

R/W/R/W/R/W/R

Wire These Front (4) Lights To A Front Light Switch. Positions 2,3,5,6.

(2) On Rear Module Wall between Load Lights and Outboard Red Lights.

Specify Whelen Light Number:

#90AA5FCR - Amber LED With Clear Lens.

These lights to come on in reverse.

Wire The Rear (2) Lights To A Rear Light Switch.

Bidder Complies YES _____ NO _____

*****PATIENT COMPARTMENT*****

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. NO EXCEPTION ALLOWED.

Bidder Complies YES_____ NO_____

Smooth Ceiling Headliner

The ambulance module ceiling shall be a two piece smooth thermoplastic sheet. To be Fire retardant ABS/PVC (FR-ABS) formulations with significantly higher impact and extensibility. To have great resistance to corrosive chemicals and cleaning solutions. Meet Fungus resistance testing in accordance with ASTM G-21 and bacteria resistance testing in accordance with ASTM G-22, Procedure B.

Bidder Complies YES_____ NO_____

Sliding Doors

There shall be quarter inch clear 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_____

Stryker PowerLOAD Prep

Will be center mounted unless otherwise specified. This includes floor structure with tapping blocks, pre-wire with 10 gauge power and ground with a 15 Amp circuit breaker that will be powered by shoreline or battery on power. The power and ground is run to inside the track. Will Include Power & Performance Load Floor Plate Kit #6390-700-001 - (Needs To Include Track Cover) and Push Rail Floor Mount Only Stryker Part# 6360-30-11. Also Includes Hardware Kit F09053 Which Is (2) Threaded Stryker Plates To Install In The Track If Customer Or Dealer Needs To Install Antlers. These are to be installed in the track by the ambulance manufacturer installer.

Bidder Complies YES_____ NO_____

Left Rear Overhead Cabinet

There shall be a left rear 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 a 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 frameless heavy 3/8" 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 a 1/8" x 1-1/2" anodized aluminum support.

Bidder Complies YES_____ NO_____

Action Area Cabinet

There shall be an action area 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.

Allow 4.5" Below The Cabinet To The Counter Top.
5.5" Deep Cabinet with One Adjustable Shelf in Each Section.

Bidder Complies YES _____ NO _____

Action Area Cabinet

The attendant's action area shall have a slanted panel to accommodate the switches and the radio.

Bidder Complies YES _____ NO _____

Lower Action Area Cabinet

There shall be a lower action area cabinet with a sliding pocket door 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.

Between CPR Seat and Through the Countertop Sharps/Trash ILOS.

Bidder Complies YES _____ NO _____

CPR Seat

A seat approximately 21" wide with rear hinged lid allowing for cabinet storage shall be recessed into the street side cabinet wall directly rearward of the main action area. A structurally reinforced steel frame encompassed 7" torso form fitted backrest providing user stability, support, proper ergonomics and safety in the event of an impact in a side facing seat. The design will assist in positioning an individual to better absorb an impact, whether it be a frontal, side or rear. The Contoured Lumbar Backrest has been tested to meet SAE Safety Standards. There will be left and right thigh protection cushions. All cushions shall be covered with heavy-duty vinyl. There shall be no piping on the cushions to accumulate contaminated material. All seams shall be sealed to repel contaminants. An IMMI 4-Point seat belt appropriately secured to the side wall shall be provided. Upper cabinets shall have left and right head protector cushions to match the seat cushion.

Includes Black IMMI 4-Point Seat Belt.
Note to Engineering: Move towards rear of wheel well ILOS.

Bidder Complies YES _____ NO _____

Attendant's Seat

There shall be a Valor USSC Vacuum Formed high back, captain's chair-type, attendant Seat on a Pedestal/Swivel Base, Part # AV-04A02AA00-Y02 at the front of the patient compartment. It shall include a 4-point seat belt. This seat shall be covered with color coordinated heavy-duty vinyl with minimal seams for ease of cleaning. The seat shall include an automotive type seat belt and retractor. The seat shall have a fore and aft adjustment on heavy duty sliding tracks. This and all seats in the patient compartment shall meet all FMVSS requirements.

An electrical storage cabinet shall be incorporated into the attendant seat base. The seat shall be mounted on a hinged platform to swing the seat out of the way and provide adequate access to electrical components under the seat and the electrical cabinet behind the seat.

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_____

Top Right Front Cabinet

There shall be a cabinet mounted above the inside/outside front stack cabinet. The cabinet shall have a top hinged solid door installed.

Includes Gas Style Hold-Opens.

Bidder Complies YES_____ NO_____

Right Front Inside/Outside Cabinet

A storage cabinet shall be installed on the right front wall that permits equipment to be accessed from either the patient compartment through a "ROM" auto latch door (or equivalent), or through an exterior compartment door. It shall have one (1) fixed and (2) adjustable shelves.

Bidder Complies YES_____ NO_____

Lower Walk-Thru Cabinet

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

With Solid Surface Counter Top Area. To Include STD Lip.

Auto-Latch ROM Door ILOS.

Sliding Polycarbonate Doors on the Upper 1/3 Cab Side.

36" (OD) High Cabinet. Same as previous unit.

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 cushion. Three structurally reinforced steel frame encompassed 7" torso form fitted backrests providing proper ergonomics and safety in the event of an impact in a side facing seat along the length of the squad bench. The design will assist in positioning an individual to better absorb an impact, whether it is a frontal, side or rear. The Contoured Lumbar Backrest has been tested to meet SAE Safety Standards.

All cushions to be covered with heavy-duty vinyl and shall be installed with industrial grade, plastic hook and loop Velcro for easy removal and cleaning. There shall be no piping on the cushions to accumulate contaminated material. All seams shall be sealed to repel contaminants. A total of three IMMI 4-Point seat belts appropriately secured to the side wall shall be provided. The squad bench lid shall be two-piece 70/30 split, with center divider, 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.

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

Includes 3 Sets Of Black IMMI 4-Point Seat Belts

Includes 3 Cot Restraints & Retractors.

Bidder Complies YES_____ NO_____

Squad Bench-Head End Retention System

The head end of the squad bench shall have a Simpson net installed. The net shall be mounted using a minimum of six (6) points.

Bidder Complies YES_____ NO_____

Squad Bench-Head End O2 Storage

There shall be a vortex lined recessed O2 storage area with bottom hinged door with divider provided with flexible straps with D-ring to secure two tanks horizontally, opens toward the step well.

Includes divider & flexible straps with D-Ring to store two tanks horizontally.

Install A Divider for (2) Jumbo "D" Tanks.

Bottom hinged solid surface door with top centered M1 latch.

Vortex Line the Interior Surface Area.

Bidder Complies YES _____ NO _____

Bandage Cabinet

There shall be a two section bandage cabinet with top hinged heavy 3/8" polycarbonate doors mounted above the squad bench.

Specify Cabinet Depth: 8.0"

Frameless doors

Bidder Complies YES _____ NO _____

Glove Box

The side door head pad shall include a recessed area for a three glove box holder. The glove box holder shall be made from ABS plastic and include a clear top hinge door.

Bidder Complies YES _____ NO _____

Grab Rail

There shall be a formed 2" diameter powder coated aluminum overhead assist rail. It shall be located on the ceiling over the patient area. This rail shall be a minimum of 100" long.

Paint All Grab Rails Yellow Powder Coat ILOS.

Bidder Complies YES _____ NO _____

Grab Rail

There shall be a formed 2" diameter powder coated aluminum overhead assist rail. It shall be located over the squad bench. This rail shall be a minimum of 100" long.

Paint All Grab Rails Yellow Powder Coat ILOS.

Bidder Complies YES _____ NO _____

Grab Rail

There shall be "L" shaped formed 2" diameter powder coated 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.

Paint All Grab Rails Yellow Powder Coat ILOS.

Bidder Complies YES _____ NO _____

Grab Rail

There shall be a formed 2" diameter powder coated aluminum grab assist handrail. It shall be located at the left rear wall.

12" Assist Rail Is Std. Size.

Paint All Grab Rails Yellow Powder Coat ILOS.

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.

Mounted In The Mid/Rear Cot Position.

Bidder Complies YES_____ NO_____

IV Hangers

There shall be two (2) CPI Model IV 2008 recessed rubber, non-swinging type IV hanger(s) that folds flat when not in use mounted in the ceiling over the lower portion of the patient area. It shall be bolted to the roof framing structure.

Specify Location:

(2) Mounted In The Forward Cot Position.

Bidder Complies YES_____ NO_____

IV Hangers

There shall be six (6) button style non-swinging type IV bracket(s) mounted in the ceiling over the lower portion of the patient area.

Specify Location:

(2) Install on either side of the bandage cabinet.

Include Velcro Straps with each hook IATS.

(4) One (1) By Each Recessed Ceiling IV Bracket.

Bidder Complies YES_____ NO_____

Cabinet Latches

There shall be stainless Southco M1 cabinet latches installed on all interior door style cabinets.

Bidder Complies YES_____ NO_____

Clock

There shall be a Franklin analog clock with sweep second hand recessed into the rear head pad.

Mount on curb side rear head cushion same as previous unit.

Bidder Complies YES_____ NO_____

Locking Cabinet Door

The interior cabinets shall include a locking cabinet door latch.

Specify Cabinet Location:

(1) Top RFS Cabinet.

Bidder Complies YES_____ NO_____

Slide Out Sharps and Waste

There shall be a slide out drawer style sharps and waste cabinet installed. The drawer shall be accessible from the outside exterior compartment.

Includes Hinged Stainless Steel Counter Top Cover ILOS.

Specify Compartment: D-2.

Mount as tight to secondary rear compartment door hinge as possible, to allow for maximum storage forward of divider.

Note: Must provide a minimum of approximately 18" (due to auxiliary AC condenser), pass-thru height clearance, in D-2, under the sharps/waste, for storage. Same as previous unit.

Bidder Complies YES _____ NO _____

Interior Walls

High Pressure Laminate to be supplied and installed. The laminate finish selected shall be White Nebula 4621-60.

Bidder Complies YES _____ NO _____

Interior Cushions

To be seam sealed cushions with high density foam with PVC base. Installed with heavy duty hook & loom for easy removal for cleaning. The vinyl shall meet the following specifications: Width: 54 inches

Size: 30 yards

Weight: 60 ± 3.25 ounces per linear yard

Thickness: 67 ± 7 mils

Cold Crack: -25 degrees F

Abrasion Resistance: No significant wear after 30,000 double rubs with #8 cotton duck using the Wyzenbeek test method

Tensile Strength: ASTM D751

Single Tear Strength: Federal Standard ASTM D2261-96

Trapezoid Tear Strength: ASTM D1117

Manufactured to meet the following flammability* requirements:

California 117, Section E

UFAC Class 1

BIFMA Class A

NFPA 260 A

FMVSS-302

May comply with IMO A.652 when tested with suitable components

May comply with Cal 133 when tested with suitable components

*This term and corresponding data refer to the typical performance in the specific test indicated and should not be construed to imply the behavior of this or any other material under actual fire conditions.

The cushion vinyl color shall be DA-314 Desert Rose.

Bidder Complies YES _____ NO _____

Cabinet Welting

There shall be color matched automotive grade welting placed between cabinet sections. The color is to be Light Gray.

Bidder Complies YES _____ NO _____

Counter Tops

The counter top is to be of a solid surface material.

Solid polymer components

- Solid surface is defined as nonporous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum tri-hydrate filler and pigment.
- Cast, nonporous, filled polymer, not coated, laminated or of composite construction with through body colors meeting ANSI Z124.3 or ANSI Z124.6, having minimum physical and performance properties specified.
- Thickness of Material to be ½", 3 pieces to create the 1-1/2" thick top with 1" Lip, giving the option of an accent stripe.
- Superficial damage to a depth of 0.010 inch (.25 mm) shall be repairable by sanding and/or polishing.
- Form joints between components using manufacturer's standard joint adhesive without conspicuous joints.
- Does not support microbial growth.

Solid surface color shall be Platinum.

Bidder Complies YES_____ NO_____

Counter Tops

The counter top is to include accent stripe to be of a solid surface material.
Solid surface color(s) shall be Ruby Glass.

Bidder Complies YES_____ NO_____

Interior Floor

The flooring is to be Lonseal. The style and color of the flooring shall be Lonplate II #424 Gunmetal.

Specify: Rolled Up 4" on left wall with Full Squad Bench Face.

Bidder Complies YES_____ NO_____

Equipment Hold Downs

There shall be "D" ring style equipment hold downs installed.

Specify Location:

(2-Pr) Sized For LP15 Monitors.

Ship Loose For Dealer Installation.

Bidder Complies YES_____ NO_____

Rear Switch Panel Cabinet

A cabinet for the second rear control panel shall be installed.

Mounted At The Head End Of The Squad Bench Below The Bandage Cabinet.

Bidder Complies YES_____ NO_____

LifePak Restraining Straps

Install two (2) 1" backboard straps through a plate in the wall:

(1) In the action area wall to secure a LifePak, below the Knox Box area.

(1) In the squad bench wall to secure a LifePak. Above the Fixed Squad Bench Lid

Bidder Complies YES_____ NO_____

IS/OS Doors

3/8" Heavy Polycarbonate Double Doors without Trim, On the Interior Section of the Right Side Rear IS/OS Access Area.
DOUBLE LATCHED.

Bidder Complies YES_____ NO_____

Knox Sentralok

Install a Customer-Supplied Knox Box #3923 Sentralok A Decoder USB std Freq w/Red Strobe in cab behind driver's seat. See #40-05-1600 for power & ground.

Bidder Complies YES_____ NO_____

Knox KeySecure

Install a Customer-Supplied #2650 KeySecure 3B USB (no strobe) in the action area under the Med Vault. See #40-05-1600 for power & ground.

Bidder Complies YES_____ NO_____

Knox Drug Vault

Install a Dealer-Supplied #4482 Drug Vault in action area, AFT OF THE ACTION AREA CABINET. 8" deep, recessed mount 7" x 7" w/ 9 1/2" x 9 1/2" face flange. See #40-05-1600 for power & ground.

Bidder Complies YES_____ NO_____

Lower Pass-Thru Cabinet Door

The lower center pass-thru cabinet shall be accessed from the patient compartment through a "ROM" auto latch door (or equivalent).

Bidder Complies YES_____ NO_____

Cabinet Forward of LFO

Add a Solid Surface right hinged door with a M1 latch forward of the LFO.

Bidder Complies YES_____ NO_____

*****PATIENT COMPARTMENT ENVIRONMENTAL SYSTEM *****

Fresh Air Intake

A filtered fresh air intake shall be mounted on the upper right front corner (passenger side) of the modular body. A 12 volt powered fresh air intake fan shall be included. The heater/air conditioner fans shall control the intake of fresh air. The system shall be a constant flow style with a thermostat controlling heating and cooling, therefore providing a fresh environment in the patient compartment.

Circuit Wired Thru The Exhaust Vent Circuit And Switch.

Bidder Complies YES_____ NO_____

Exhaust Fan

A Turbo 4000 power exhaust vent fan shall be installed in the rear upper wall below the roof line. 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 first vane axial-flow fan bilge blowers designed using aerospace technology to maximize performance. No other bilge blowers in the industry provide such powerful system output at such low power input in a compact size.

- Patented in-line design – provides ventilation for engine compartments, galleys, bilges, and heads.
- System airflow exceeds old-style in-line blowers by as much as 25%
- Draws up to 40% fewer amps, making our Turbo blowers up to four times more efficient than competitive blowers.

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 in system and 200 CFM open flow.

(1)E09226 Atwood 4" Fan

(1) M040666 4" Vent Hose

(2) LL Aluminum Manifolds

(1) Additional F06001 Perko Cowl Vent

Bidder Complies YES_____ NO_____

Heat/AC

A Pro Air brand #916 HVAC system shall be used. The unit shall have as a minimum 32,000 BTU cooling, and 35,000 BTU heating with a 650 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 controlled 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. All clamps shall be of a type approved by the HVAC manufacturer. All hoses are QVM regulated.

Install ProAir # 916 ILOS.

Includes Digital Temperature Display.

Includes Climate Indicators For Heat/AC/Fan Speed.

Includes High-Medium-Low Fan Speeds.

Bidder Complies YES_____ NO_____

Ducted HVAC

The HVAC shall be ducted down the center ceiling strip. There shall be a minimum of six round adjustable ducts. The ducting shall be tapered to allow full flow of air to the further most vents.

Bidder Complies YES_____ NO_____

In-Line Booster Pump

A 12-volt centrifugal liquid pump shall be installed. The pump shall boost the flow capacity of the engine coolant.

Bidder Complies YES_____ NO_____

AC Condenser

The vehicle shall have an auxiliary ProAir two fan condenser #106 AC condenser installed under the module body.

Specify Mounting Location: Below D2

Install Rubber Debris Flaps On The Forward And Rear Edges.

Bidder Complies YES_____ NO_____

Insulation

There shall be two inch thick plank non-deteriorating high density "Yellow Certifoam" insulation. The thermal resistance of the insulation shall hold a five year aged value of 11.2 @25 degree F mean temperature. The importance of aged value relates to initial "R" values that over a five year period deteriorate and allow for a false "R" value.

Insulation shall be placed between all framing and include the module body walls, floor, ceiling and patient doors. There shall also be a four MIL vapor barrier placed in the module walls, ceiling and patient doors. This vapor barrier shall serve as an additional moisture barrier for the changing outside environment.

Gas chassis includes Thermotech heat barrier part #F18084. This goes on the heat shield that goes over the axle. This also gets the thermo heat insulation blanket on the bottom of the floor and goes from the front of the module to the fuel tank.

Bidder Complies YES_____ NO_____

Undercoating

The ambulance module shall be undercoated with automotive grade under-coating.

Bidder Complies YES_____ NO_____

*****OXYGEN SYSTEM*****

Oxygen System

The oxygen system shall be capable of storing and supplying a minimum of 3000 liters of oxygen. A suitable high-pressure hose shall be provided. The hose shall be certified to meet 250 psi and have a 1000 pound burst rating.

Bidder Complies YES_____ NO_____

The entire oxygen system shall be subjected to a 200-psi leak test for a minimum two hours. A certification label shall be located in the oxygen compartment.

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.

In Front of Bandage Cabinet and Switch Panel Cabinet (same as previous unit).

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 8" x 14" Lexan Glass 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

A ZICO electric oxygen cylinder lift bracket shall be installed in the oxygen compartment. A switch shall also be installed and located in an area which allows for maximum operator safety.

Includes (3) Ratchet Straps.

Specify Bracket Location: D-1 Compartment On Wall #2.

Specify Tank Size: SAME AS PREVIOUS UNIT.

9" Diameter x 50" High to the Neck "H" Tank.

Specify Aluminum Or Steel Tank: Steel.

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 Outlet

An Ohio style suction outlet shall be mounted on the back wall of the front action area.

Includes Quick Disconnect for Outlet
Hose Barb Must Fit the Suction Hose

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.

Bidder Complies YES_____ NO_____

*****PAINT*****

Paint Design

The ambulance manufacturer shall use an American made Polyurethane paint.

All paint contains a film forming component, a solvent thinner, and a pigment. In conventional paint the film forming component and pigment are deposited on the surface as the solvent evaporates. In polyurethane paint, however, the film is formed when isocyanate, a chemical unique to polyurethane paint, becomes a plastic like substance. In one component polyurethane paint, this happens as isocyanate reacts with moisture in the air. In two component paint, a moisture curing chemical is added. Polyurethane paint has excellent performance characteristics: adhesion, hardness, gloss, flexibility, and resistance to abrasion, impact, weathering, acids and solvents.

The paint must have:

- 1) High gloss retention and DOI
- 2) Strong UV properties to resist fading
- 3) Strong Chemical resistance
- 4) Strong Chip resistance
- 5) A 3.5lbs/gal VOC content or less (green component)
- 6) A proven durability in the commercial fleet industry

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.

Bidder Complies YES_____ NO_____

Facility Certification

The paint facility shall be in current compliance with 40 CFR (code of federal regulations) part 63 subpart HHHHHH national emission standards for hazardous air pollutants: Paint stripping and miscellaneous surface coating operations at area sources (6H-NESHAP). Spray guns shall also be high volume – low pressure certified.

Bidder Complies YES_____ NO_____

Painter Certification

All painters shall be certified. Documentation shall be available upon request.

Training documentation shall include:

- EPA Rule 40 Part 63 Painter Requirements
- Spray gun set up and usage
- Spray gun maintenance
- Hands on practical use of HVLP and RP Equipment
- Cycle time reductions and improving productivity with correct equipment and usages
- Air volume requirements
- Air filtration and filter maintenance
- Supplied air respiration
- CO monitor requirements
- Spot repair procedure
- RPS cups

Bidder Complies YES_____ NO_____

Ambulance Module Prep

Prior to assembly, all joints and seams are to be mechanically etched. All welds shall be ground smooth prior to priming. The entire body shall be sanded and then washed with a silicone wax and degreaser remover 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
 - Mechanically etch the entire body
 - D.A. Sand with 80-grit paper thoroughly until bright
 - Bodywork using Duraglas any area that is needed
 - Mechanically hand etch edges thoroughly until bright with 80-grit sandpaper
 - Final sand body with 80 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.

Bidder Complies YES_____ NO_____

- 2) PRIMING:
 - Tack off the unit
 - Spray one double coat or two medium wet coats of chemical 615S self- etching Variprime.
 - The use of Variprime® two-component, self-etching primer is important due to its fast-drying time, its ability to provide excellent corrosion resistance and it's direct to metal adhesion for spot, panel and overall repairs.

Due to different painters ability in application a minimum of 1.2 mils DFT (Dry film thickness) is required. It is not acceptable to only state double coat or two wet coats.

- Allow 30 minutes dry time
- Apply three wet coats of 1340S two component low VOC URO Primer-sealer.
- The wet film thickness shall be a minimum of 6 mils and be properly documented.
- A minimum of 5 minutes shall be allowed between coats.
- The unit shall be baked for a minimum of one hour @ 150 degrees.
- A 45 minute cool down shall then occur before final sanding.

Bidder Complies YES_____ NO_____

- 3) **SANDING**
 Block sand with 240-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 240-grit sandpaper followed by 320-grit sandpaper if necessary, a scuff pad may also be used after the re-prime process
 Dry film thickness after sanding shall be documented at a minimum 2.0 mils.
 Proper DTF is required to assure the primer base coat is evenly applied.

Bidder Complies YES _____ NO _____

- 4) **PRE TOPCOAT PREPARATION**
 Blow off body with air gun to remove dust
 Wipe with 3939S using two-cloth method
 Seam seal with 3M non-shrinking silicone free sealer
 Clean body with 3939S using the two-cloth method
 Final wipe with a third clean cloth to remove any further residue
 (All wipe down shall be done in a downdraft paint booth)
 Tack rag unit

Bidder Complies YES _____ NO _____

- 5) **TOPCOAT PROCEDURE**
 Mix IMRON/ELITE polyurethane paint with activator
 Apply a minimum of two separate medium wet cross coats to the entire body
 The topcoat shall have a documented minimum of 2.5 mils DFT
 Bake body for 60 minutes at 150 degrees
 The total topcoat and primer shall be a documented minimum of 5.7 mils DFT.

Bidder Complies YES _____ NO _____

Warranty

A paint warranty between the paint manufacturer, the ambulance manufacturer, and the end user shall be provided. The warranty shall include the paint manufacturers audit procedure to include spot checks made by the paint manufacturer. The warranty shall be for a period of three years at 100% and three additional years prorated at 50% fourth year, 25% fifth year and 10% at sixth year. The warranty shall be honored at any AXALTA authorized body shop. With approval, 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.

Touch-Up Paint Is Included For Colored Module Body Stripes.

Bidder Complies YES _____ NO _____

Paint Design

There shall be a two tone paint scheme, to have one paint color from the bottom of the cab window on up, and another paint color from the bottom of the cab window on down.

Paint The Lower Half Of The Cab And The Module Red.

Includes Custom Thunderbolt On The Sides Of The Module.

Paint the Rear of the Module Red from the Corner Posts In and the Upper Drip Rail down Red. DEALER WILL INSTALL CHEVRONS. The Upper Rail And The Corner Posts Will Be O.E.M. White.

The rear corner post is to be lower half red and upper half white. Must match present ambulances.

Specify Paint Color: Red #L0753HLW.

Bidder Complies YES _____ NO _____

Door Pins

All Door Nader pins shall not be painted. They shall be installed after the paint process is completed.

Bidder Complies YES _____ NO _____

No Stripe

There shall be no stripe on rear wall & doors for dealer installed chevrons.

Bidder Complies YES _____ NO _____

Pinstripe

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

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" 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 _____

Reflective Tape

There shall be 3/4" white reflective tape applied around the edge of the side and rear entry doors to meet only for "KKK".

Bidder Complies YES _____ NO _____

Reflective Lettering

There shall be 12" Scotchlite reflective lettering applied to the completed vehicle.

"118-1"

Specify Color and Font: Helvetica Bold Font, Black Reflective

Specify Lettering Location: Roof of module forward of Star-of-Life.

Bidder Complies YES _____ NO _____

*****DEALER SUPPLIED AND INSTALLED OPTIONS*******Lettering & Graphics**

Gold Leaf Lettering, Custom Flag & Eagle Graphics, Door Logos, and Vinyl Etched Stars-of-Life on Rear Windows with Reflective Outline.

Note: New Vehicle I.D. # is 118-1

Bidder Complies YES _____ NO _____

Reflective Striping

White Reflective 6" Wide Thunderbolt On The Module Body Sides Same as Previous Unit. Stripe Must Not Be Interrupted by the Window. Install Below The Window.

Installed 1/2" Above And Below The 6" Wide Thunderbolt Stripe.

Break On the Cab Doors for Customer Supplied Decal.

Bidder Complies YES _____ NO _____

Rear Wall Chevrons

Install Two-Color Reflective Chevrons On Entire Rear Of Modular Body. Use 3M Diamond Grade Reflective Sheeting And 3M Scotchlite Electronic Film Series 1170 Overlay. Requires Removal And Reinstallation Of All Rear Lights And Door Hardware. Colors: Red/Fluorescent Yellow-Green.

Note: Wide Chevrons ILOS. Match existing units.

Bidder Complies YES _____ NO _____

Door Chevrons

Install Two-Color Reflective Chevrons On Inside Lower Entry Door Panels. Use 3M Diamond Grade Reflective Sheeting And 3M Scotchlite Electronic Film Series 1170 Overlay. Requires Removal And Reinstallation Of All Rear Lights And Door Hardware. Colors: Red/Fluorescent Yellow-Green.

Note: Wide Chevrons ILOS. Match existing units.

Bidder Complies YES _____ NO _____

Rear Windows

Add Gerber Vision to (2) Rear Door Windows.

Bidder Complies YES _____ NO _____

Reflective Tape

Install 2" Wide Red/White Reflective DOT Tape Full Width along Edge of Rear Step.

Bidder Complies YES _____ NO _____

Stair Chair Wheel Stops

Install aluminum angle plates on floor of P-5 compartment for stair chair.

Bidder Complies YES _____ NO _____

Vent Shades

Install Smoked Acrylic Vent Shades on Cab Windows.

Bidder Complies YES _____ NO _____

Equipment Mounting

Remove SCBA brackets, Streamlights, and brackets for Irons, Bolt Cutters, and fire extinguisher from existing ambulance and install in new ambulance.

Bidder Complies YES_____ NO_____

Door Reinforcement

Install HD Gas Piston and webbed reinforcing straps on D-3 door, same as previous unit.

Bidder Complies YES_____ NO_____

Cryogenic Brake Pads & Rotors

The front and rear O.E.M. brake pads and rotors shall be removed and replaced with new cryogenically treated brake pads and rotors for longer service life. Replacement parts shall also be O.E.M.

Bidder Complies YES_____ NO_____

Plymo-Vent Modification

Modify Exhaust for Plymo-Vent System.

Bidder Complies YES_____ NO_____

PowerLOAD Installation

Remove PowerLOAD from existing ambulance and install in new ambulance.

Bidder Complies YES_____ NO_____

Knox Drug Vault

Supply a Knox Drug Vault #4482 with single lock to be installed by ambulance manufacturer.

Bidder Complies YES_____ NO_____

*****END OF SPECIFICATIONS*****