

Bridgeview Fire Department - Type 1 Ambulance

A1.0 SCOPE, PURPOSE AND CLASSIFICATION

A1.0.1 SCOPE

This specification covers a new commercially produced surface emergency medical care vehicle(s), herein referred to as an “ambulance” or “vehicle”. This vehicle shall be in accordance with the Ambulance Design Criteria of the National Highway Traffic Safety Administration, United States Department of Transportation, Washington DC. This specification is based on current KKK - A1822 - F revision. It is the intent of this agency to purchase vehicle(s) that are professionally engineered and designed. It is paramount to this agency that vehicle(s) presented be built by a reputable manufacturer with considerable experience in the ambulance manufacturing field. To this end, this agency requires that each manufacturer provide the following:

- 1] A statement of fact, signed by an officer of the manufacturing company, disclosing that the manufacturer has delivered five hundred (500) ambulances within the last twelve (12) months of the date of this bid.
- 2] The size and location of manufacturing facilities and number of production staff.
- 3] Interior pictures to verify plant facilities.
- 4] A list of on-site engineering staff with educational accreditation.
- 5] ISO 9001:2000 Certification.

Failure to provide this agency with the documentation required will be deemed non-responsive.

Bidder Complies YES_____ NO_____

A1.0.2 PURPOSE

The purpose of this document is to provide the manufacturer with a set of specifications and test parameters that will meet the criteria to manufacture a vehicle as set forth by this agency. This agency seeks a vehicle that will deliver “fair value”. Fair value is defined by this agency as the manufacturer's ability to provide a safe, functional, and practical ambulance conversion that will work in junction with the chassis specified at a reasonable cost. The specifications within this document are a basis to deliver such a vehicle to this agency. This agency at its discretion shall assess the intangible assets of the manufacturer such as, but not limited to, after quality, delivery support, customer service, parts availability and warranty turn around time.

Bidder Complies YES_____ NO_____

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A1.0.3 CLASSIFICATION

This specification calls for the following type of vehicle in accordance with the current KKK-A1822-F revision.

Bidder Complies YES _____ NO _____

A1.1 GENERAL

This is an engineer, design, construct and deliver type specification meeting the needs of this agency. Attention has been given to the engineering and design aspect of this specification that will attain our goal of fair value. It is the manufacturer's responsibility to deliver a product meeting the criteria as set forth. This agency reserves the right to increase the equipment quantities that are specified. In addition, other agencies will be permitted to purchase equipment under this contract as a result of this specification, unless prohibited under law.

Bidder Complies YES _____ NO _____

A1.1.1 SITES OF WORK

Other than the chassis, specified accessories, and raw materials such as aluminum, wood, etc.; all shops and sub-shops shall be within the complex(s) that are directly owned and controlled by the primary manufacturer. Any assemblies including, but not limited to, upholstery, fiberglass, cabinetry, electrical, structural and paint application, that are performed or supplied outside of the primary manufacturer's location(s) must be noted. The name, address, and contact person supplying the primary manufacturer with the assemblies must be provided in writing to this agency. Non-disclosure will be sufficient grounds for rejection of bid or termination of contract. Ambulances or chassis' imported for consideration of this specification into the United States under the North America Free Trade Act must provide documentation of compliance with all United States laws applicable. Further, any import ambulance must be independently certified and tested within the United States to meet KKK-A1822-F certification.

Bidder Complies YES _____ NO _____

A1.1.2 EXAMINATION OF SPECIFICATIONS

It is incumbent on each manufacturer to be thoroughly familiar with the specification contained herein. The specification will require a "YES" or "NO" or when requested a definitive answer to each section or subsection. Sections or subsections not marked with a "YES" or "NO" or answered shall be deemed incomplete and considered non-responsive. A "YES" answer

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constitutes a complete compliance to the section or subsection as written. A “NO” shall indicate noncompliance and does not eliminate a manufacturer from competition. A manufacturer may object or counter to a specific section or subsection. A manufacturer must indicate in writing, as an attachment to the Bid Form, the section or subsection in dispute. The manufacturer must include the verbiage as written, new verbiage presented, explanation of verbiage with consequences and supporting tests and documentation. Failure to comply will be deemed as non-responsive. This agency reserves the right to determine compliance.

Bidder Complies YES _____ NO _____

A1.1.3 DEFINITIONS: The following definitions shall apply with regards to these specifications.

Bidder Complies YES _____ NO _____

A1.1.4 PURCHASER: The end user of the equipment specified or the applicable purchasing agency acting on behalf of the end user.

Bidder Complies YES _____ NO _____

A1.1.5 CONTRACTOR: The individual, firm, partnership manufacturer, or corporation to whom the contract is awarded by the Purchaser and is subject to the terms thereof. For bidding purposes the contractor, vendor, bidder, manufacturer are synonymous.

Bidder Complies YES _____ NO _____

A1.1.6 EQUAL: This agency supports the design, engineering, quality and materials as specified in this document. This shall not prohibit the bidding of unlike product. However, any deviation from the specification must be marked and submitted per section A1.1.2. Failure to do so shall be deemed non-responsive.

Bidder Complies YES _____ NO _____

A1.1.7 MANUFACTURER: The manufacturer within this specification shall be considered the “primary manufacturer” of the ambulance conversion. The chassis requirement as set forth in this specification is the responsibility of the primary manufacturer to procure. This agency considers the chassis platform as a conveyance for the ambulance conversion. It is imperative that the primary manufacturers procure the **exact** chassis from the chassis manufacturer. After market

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modifications by the primary manufacturer to achieve chassis specification will not be tolerated. This agency will require documentation from the chassis manufacturer pertaining to the chassis requirements for this agency. Failure to provide documentation after award and prior to construction may result in the termination of the contract. Expenses to re-bid will be the responsibility of the manufacturer in default.

Bidder Complies YES_____ NO_____

A2.0 SPECIAL CONDITIONS

A2.1 BIDDERS RESPONSIBILITY AND QUALIFICATION

A2.1.1

It is not the intent of these specifications to call for an unusual or experimental vehicle(s). The primary manufacturer shall have a minimum of 10 years of uninterrupted manufacturing of similar or identical vehicles to the specifications set forth in this bid.

Bidder Complies YES_____ NO_____

A2.1.2

The primary manufacturer shall supply upon request a list of fifteen (15) agencies that have purchased similar or identical vehicles within the past year from date of bid. The list will have contact names and phone numbers.

Bidder Complies YES_____ NO_____

A.2.1.3

For the purpose of this section, if the bidder of record and the primary manufacturer are separate business entities, then each shall be required to submit financial, insurance, and/or licenser to conduct business within this jurisdiction. Failure to provide proper documentation with the bid response may result in any bid being deemed non-responsive.

Bidder Complies YES_____ NO_____

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A.2.1.4

The primary manufacturer shall be ISO 9001:2000 certified. **No Exceptions.**

Bidder Complies YES _____ NO _____

A.2.1.5

The primary manufacturer shall employ full time a Quality Control Manager whose primary function is to monitor quality. **No Exceptions.**

Bidder Complies YES _____ NO _____

A2.2 PAYMENT, DELIVERY AND ACCEPTANCE

A2.2.1

A deposit may be remitted with the order not to exceed ten percent (10%) of the total contract amount. This agency reserves the right to issue a binding municipal Purchase Order in lieu of a deposit. The choice to submit either the deposit and/or the binding purchase order will be that of this agency.

Prepayments or progress payments for any part or material after contract award may result in a termination of the award. The contract will be given to the next responsible primary manufacturer. It is the intent of this agency to do business with a company of sufficient financial means to meet the financial burdens necessary to complete and to deliver the vehicle as specified.

Unless otherwise requested, the primary manufacturer shall arrange over the road delivery of the completed vehicle to this agency's designated local address under the vehicle's own power. Costs of transportation and preparation are to be included with the price as bid. The primary manufacturer may, as an option, offer a line item credit for pick up by this agency at their place of manufacture.

Payment in full will be made upon delivery once an inspection of the vehicle by this agency's authorized representative(s) confirms compliance with the specification. The delivery, acceptance inspection, and payment shall take place on the same day. In the event it is deemed necessary for this agency to inspect the vehicle(s) at the primary manufacture location, a temperature controlled inspection area separate from the production facility shall be available.

Bidder Complies YES _____ NO _____

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A2.2.2

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

Bidder Complies YES_____ NO_____

A2.2.3

Bid prices shall be valid for sixty (60) days. In the unforeseen circumstance that this agency requires the primary manufacturer to extend pricing requirement, then it will be at the discretion of this agency to request in writing from the primary manufacturer any deviation in prices quoted. The primary manufacturer may revise pricing and state in writing reasons for any change and certify the amended pricing for sixty (60) additional days.

Bidder Complies YES_____ NO_____

A2.3 BID EVALUATION

Bids received shall be evaluated by the Purchaser. This evaluation will be based on the following:

- Completeness of the proposal
- Manufacturing and Delivery schedule
- Primary manufacturer's demonstrated capabilities and qualifications
- Primary manufacturer's past performance on similar Bid Proposals
- Primary manufacturer's maintainability and recommendations
- Primary manufacturer's logistical and service support

Bidder Complies YES_____ NO_____

A2.3.1

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

Bidder Complies YES_____ NO_____

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A2.3.2

Bid proposals that do not comply with the prescribed method to take exceptions listed in paragraph A1.1.2 will be rejected without further consideration.

Bidder Complies YES_____ NO_____

A2.3.3

This agency seeks the highest level of value for the cost. To assure this agency is receiving such value the primary manufacturer must submit evidence of compliance with KKK-A1822-F testing parameters. The testing is to be performed by an independent testing facility and verified by person(s) with the standing of Professional Engineer. If further testing is required by any lawful agency of the Federal or State Government then it shall be incumbent upon the primary manufacturer to provide this agency with certification required.

Bidder Complies YES_____ NO_____

A2.3.4

This agency also recognizes Ford Motor Company's Qualified Vehicle Modifiers (QVM) accreditation. Therefore, regardless of chassis specifications the primary manufacturer must include with this proposal their current QVM certification.

Bidder Complies YES_____ NO_____

A2.3.5

Internal testing performed and certified for a primary manufacturer will not be considered by this agency.

Bidder Complies YES_____ NO_____

A2.3.6

The primary manufacturer may submit certification of all "member in good standing" of any public or private association that may have bearing on this specification i.e. AMD, NTEA.

Bidder Complies YES_____ NO_____

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A2.3.7

To insure that this contract is awarded to a primary manufacturer who has the resources to meet the performance and warranty criteria specified herein, the primary manufacturer shall state in the bid proposal if it is a public or private company. If the primary manufacturer is privately held, then it shall include the most current financial statement by a Certified Public Accountant not more than twelve (12) months old, or current financial statement of the parent company. If the primary manufacturer is a publicly held company or wholly owned by a publicly held company, then it shall state what stock exchange and under what symbol it is traded under. **Bids not meeting this requirement cannot be accepted.**

Note: In performing the evaluation, only information contained within the primary manufacturer's written proposal will be considered.

Bidder Complies YES_____ NO_____

A2.4 CONTRACT AWARD

The Purchaser reserves the right to increase the number of vehicles or equipment specified under this contract. If awarded, the primary manufacturer agrees that additional agencies may purchase under the same terms and prices afforded by any contract arising from the bid award, unless prohibited by law.

Bidder Complies YES_____ NO_____

A2.4.1

The purchaser has the right to waive any informalities, irregularities, and technicalities in procedure.

Bidder Complies YES_____ NO_____

A2.5 WARRANTY

This agency is concerned with the ability of the primary manufacturer to warrant the conversion after delivery. This agency expects a minimum of a fifteen (15) year modular construction warranty and thirty-six (36) months and thirty-six thousand (36,000) mile full warranty on the conversion. In addition, each manufacturer shall submit its various warranties and warranty options, if applicable, with the proposal for evaluation. Also, each primary manufacturer will

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supply the name and phone number of a contact person in the event this agency requires clarification of the submitted warranty documents.

Bidder Complies YES _____ NO _____

The primary manufacturer will provide the location of the closest approved warranty center. Indicate to this agency, in writing, to be included with this proposal, the process to initiate and file a warranty claim.

Bidder Complies YES _____ NO _____

A2.5.1

Due to the high demands on a pre-hospital care vehicle, this agency demands the primary manufacturer have available a twenty-four hour a day technical assist service. This 24/7 service must be staffed by the primary manufacturer's service personnel, include telephone number:

_____.

Bidder Complies YES _____ NO _____

A2.6 DELIVERY

The primary manufacturer will provide in writing to accompany this document a proposed delivery time not to exceed 180 Days. The delivery time proposal will include the transit time of the finished vehicle.

Bidder Complies YES _____ NO _____

A2.7 PERFORMANCE BOND

This agency reserves the right to seek a one hundred percent (100%) performance and payment bond as a condition of award. A letter must be included from a certified bonding agency stating that a performance bond can be issued on behalf of the primary manufacturer. Failure to comply may be deemed as non-responsive.

Bidder Complies YES _____ NO _____

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A2.8 INDEMNIFICATION AND INSURANCE

This agency seeks to mitigate future liability exposure; therefore, all primary manufacturers will submit their Certificate of Insurance for evaluation. This agency will only consider a primary manufacturer with a minimum of Ten Million United States Dollars (\$10,000,000.00 USD) that is based on a **PER INCIDENT** basis. This insurance shall be issued by a company rated "A" or better as reported in the current edition of Bests Key Rating Guide, published by Alfred M. Best Company, Inc. Aggregate liability coverage will not be considered regardless of amount. Failure to comply will be deemed non-responsive.

Bidder Complies YES _____ NO _____

A2.9 FAMILIARITY WITH LAWS

The primary manufacturer will be familiar with all Federal, State and Local laws, ordinance, code rules and regulations that may in any way effect the work. Ignorance on the part of the primary manufacturer is not acceptable.

Bidder Complies YES _____ NO _____

A2.10 PRE-CONSTRUCTION CONFERENCE

The successful primary manufacturer shall be required to hold a pre-construction conference with representatives of this agency to finalize construction details. In the event it is deemed necessary by both parties that the conference be held at a location other than at this agency; the following shall occur. The primary manufacturer will provide adequate transportation, lodging, and meals for three (3) designated personnel from this agency. Further, if the location is in an excess of three hundred (300) miles from this agency's location, the transportation shall be by a commercial air carrier. Private or corporate aircraft may not be used.

Bidder Complies YES _____ NO _____

A2.11 FINAL INSPECTION TRIP

A final inspection trip shall be provided by the bidder. The inspection trip shall take place during the final stages of the manufacturing process. The trip shall include transportation for two (2) day/night stays. A trip requiring travel of more than 300 miles shall be via commercial air travel. Under no circumstances shall air travel be via private or corporate aircraft.

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Number of Department personnel 3

Bidder Complies YES NO

A2.12 DRAWINGS

The primary manufacturer shall provide a set of drawings that accurately depicts the vehicle as specified. The drawings will show all exterior and interior planes with dimensions. Failure to comply will be deemed non-responsive.

Bidder Complies YES NO

A2.13 EMPLOYEE STATEMENT

It is mandated by the United States Government that all employees currently and to be employed during the duration of this contract are not discriminated against because of their race, creed, color, sex, nationality origin and disability. Further, this agency must be satisfied that the primary manufacturer's labor pool is treated in a fair and equitable manner. Therefore, it will be the responsibility of the primary manufacturer to include a human resource statement outlining employment status, working conditions, and benefits.

Bidder Complies YES NO

A2.14 ANTI-COLLUSION STATEMENT

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

Bidder Complies YES NO

3.0 TECHNICAL REQUIREMENTS CAB - CHASSIS

3.1 GENERAL VEHICULAR DESIGN, TYPES, AND FLOOR PLAN

The ambulance and the allied equipment furnished under this specification shall be the primary manufacturer's current commercial vehicle of the type and class specified. The ambulance shall be complete with the operating accessories as specified herein. It shall be furnished with such modifications and attachments as necessary and specified to enable the vehicle to function

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reliably and efficiently in sustained operation. The design of the vehicle and the specified equipment shall permit accessibility for servicing, replacement and adjustment of component parts and accessories with minimum disturbance to other components and systems.

Bidder Complies YES _____ NO _____

3.1.2

The ambulance shall be a Type I, Class I, and shall be a chassis furnished with a two (2) door conventional cab. The chassis shall be suitable for subsequent mounting of a modular (containerized), transferable equipped ambulance body conforming to the requirements herein.

Bidder Complies YES _____ NO _____

3.1.3

The design of the vehicle shall utilize floor plan "A" loading arrangement of patients into the patient compartment. All litters shall be loaded into position with the heads of the patients forward in the vehicle.

Bidder Complies YES _____ NO _____

3.2 VEHICLE COMPONENTS, EQUIPMENT, AND ACCESSORIES.

The emergency medical care vehicle, chassis ambulance body, equipment, devices medical accessories and electronic equipment to be delivered under this contract shall be standard commercial products, tested and certified, to meet this specification. The vehicle shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and United States regulations applicable or specified for the year of manufacture. The primary manufacturer shall procure the chassis, components, equipment and accessories as specified and be the current technical data and materials of all suppliers.

Bidder Complies YES _____ NO _____

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3.3 MATERIALS

Materials used in the construction shall be new and meet the quality conforming to this specification. Materials shall be free of defects.

Bidder Complies YES_____ NO_____

3.4 VEHICLE OPERATION, PERFORMANCE, AND PHYSICAL CHARACTERISTICS

The following is a description of the cab and chassis that will meet the requirements of this specification. In addition, the chassis will comply with paragraphs 3.4.1 through 3.6.14 of Federal Specification KKK-A-1822F.

3.5 CHASSIS MANUFACTURER AND MODEL YEAR

The chassis shall meet the requirements of this specification. It shall be a 2015 Ford.

3.6 MODEL PHYSICAL CHARACTERISTICS

Vehicle:	Ford Chassis Cab	
Body Style:	Super Duty F-450 Dual Rear Wheel	
Drive Train:	Rear Wheel Drive	
Model Number body code:	F4G Regular Cab 189" wheel base XLT	
Gross Axle Weight:	Front	Rear
	7,000 lb.	11,000 lb.
Gross Vehicle Weight	Rating	
	16,500 lb.	
Engine Type:	99T 6.7L Diesel V8 with 98R Manual Regen	
Displacement	6.7 liters	
Fuel System	Turbocharged DI	

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SAE net HP	325 @ 3300 RPM
SAE net Torque	570 foot pounds @ 2000 RPM
Wheelbase:	189 inches
Transmission:	6 - speed Automatic, Electronic
Rear Axle Ratio:	4:10 Ltd Slip
Tire Size:	LT225/70Rx19.5F, BSW All Season, 2 front, 4 rear
Spare Tire Size:	LT225/70Rx19.5F, BSW All Season
Wheels	All including spare, steel 19.5 x 6.0
Brakes:	4-Wheel ABS System
Engine Block Heater:	Code 41H
Alternators:	Dual 130 Alternators, Code 67A
Batteries:	Dual, 78-AH, 750 CCA
Fuel Tank:	Single 40 Gallon, aft of rear axle
Exterior Upgrade Package:	647A
Interior Upgrade Package:	647A
Cab seating:	Code 3- 40/20/40 cloth
Ambulance Prep. Package:	Code 47L
A/C Heater Connector Pkg:	Code 57L
Steering:	Power
Stereo	AM/FM, Single CD Player, Clock
Running Lights	Day time Running Lights, Code 942

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4.8.1 CAB TO MODULE MOUNTING

The transition from the Cab to Module shall be of a "PassThru" Design. A Rubber Bellows with Aluminum Cab Insert shall be installed to seal the area from the exterior and allow for movement between the Cab and Module.

Bidder Complies YES _____ NO _____

CAB PATIENT COMPARTMENT

The modular body shall be attached to the cab chassis by means of a rubber bellows with one hundred and fifty square inches of open viewing area.

Bidder Complies YES _____ NO _____

TWO TONE- WHITE OVER RED CUSTOM PAINT

Successful bidder shall supply a custom paint scheme per the customer's current configuration.

The final paint application to the vehicle chassis and body shall be made with Sikkens Brand Autocryl acrylic urethane paint.

Paint Color: CANDY APPLE RED

Paint Number: FA90:EU

STARTING ON THE CAB ABOVE THE RED PAINT IS TO BE WHITE PAINT THAT IS STRAIGHT ON THE FRONT FACE OF THE BODY, THEN ANGLES UP AND OVER THE DRIP RAIL ON EACH SIDE OF THE BODY. DRIP RAILS AND UP, INCLUDING THE ROOF TO REMAIN WHITE. INSTALL A .250" GOLD SCOTCHLITE PINSTRIPE BETWEEN THE RED/WHITE PAINT BREAK.

Bidder Complies YES _____ NO _____

VEHICLE STRIPING

A Custom 1-6-1- White Scotchlite strip shall be installed on the vehicle as follows: It shall match the customer's current configuration:

INSTALL A 6.00" WIDE WHITE SCOTCHLITE BELTLINE STRIPE WITH A 1.00" WIDE WHITE SCOTCHLITE STRIPE SPACED 1.00" ABOVE AND BELOW MAIN STRIPE. THE

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STRIPE TO START AT THE REAR EDGE OF THE FRONT CHASSIS FENDERS, AND CONTINUE BACK TO THE AREA ABOVE THE REAR WHEELS. THE STRIPE WILL THEN BREAK "UP" AT A 45 DEGREE ANGLE AND WRAP AROUND THE REAR OF THE MODULE, JUST ABOVE THE REAR WINDOWS.

Bidder Complies YES_____ NO_____

VEHICLE LETTERING

Lettering and Numbering shall be supplied per the customer's current configuration.

Bidder Complies YES_____ NO_____

SUSPENSION SYSTEM

There shall be a Kelderman Air Suspension installed on the rear chassis axle. The model shall be KLM17555M with Mechanical air control and shall be installed per the manufacturer's instruction. The rear suspension shall only lower the module when the vehicle is in neutral or park and the parking brake is set. Includes Air Dryer Kit #KLM50061 and rear sway bar.

Bidder Complies YES_____ NO_____

AUTOMATIC HEATED SPITTER VALVE, KELDERMAN AIR RIDE SYSTEM

Hadex Automatic Heated Spitter drain valve will be used on all Kelderman air ride systems; this will automatically drain water and contaminants upon each brake application. The heated tank will reduce condensation and allow for the valve to work in freezing temperatures.

Bidder Complies YES_____ NO_____

AUTO DUMP W/ OVERRIDE SWITCH, FOR AIR SUSPENSION

The Air Suspension shall automatically lower the rear of the vehicle when the left rear entry door is opened. An override switch shall be mounted inside the right rear entry door.

Bidder Complies YES_____ NO_____

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ADDITIONAL MOMENTARY SWITCH FOR REAR DUMP FEATURE ON CAB CONSOLE.

An additional momentary switch shall be located on the cab console to activate the rear dump feature.

Bidder Complies YES _____ NO _____

IGNITION SECURITY SYSTEM

An Ignition Security System shall be installed in the vehicle with a three position switch located on the dash to the right of the steering column. The first position shall allow for key removal with the vehicle running. The second position shall be the off position. The third position shall allow for key removal with the vehicle running and activate the OEM horn if there is an attempt to put the vehicle in gear.

Bidder Complies YES _____ NO _____

CAB FLOORING MATERIAL

The OEM cab carpet shall be replaced with an OEM purchased black rubber flooring.

Bidder Complies YES _____ NO _____

HEATER HOSES

Nomex heater hoses shall be installed.

Bidder Complies YES _____ NO _____

ENVIRONMENTAL SYSTEMS

The ambulance shall be equipped with heating, ventilating, and air conditioning systems that operate using re-circulated air and ambient air and shall be capable of maintaining interior temperature within the established comfort zone of 68 degrees Fahrenheit thru 78 degrees Fahrenheit while operating, and between 0 degrees and 95 degrees Fahrenheit ambient. Environmental system components shall be readily accessible for servicing at the installed location. The airflow selector switch shall provide a high, medium and low setting. The switch shall be a common switch for both the heater and air conditioner. These environmental control

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switches shall be immediately accessible to the attendant while seated in the primary attendant seat located at the head of the primary patient.

The module control thermostat shall be located on a removable panel above the action wall. The system shall automatically maintain the set module temperature every time the vehicle is operated. The combo air conditioning /heating shall be located in the top of the right front cabinet. The system shall have a custom enclosure to increase the efficiency of the system. The enclosure is a custom housing designed to hold a Hoseline condenser on the front of the module and allow for additional lighting mounted on the housing. The housing measures 65.38 inches along the rear (box side) and 40.5 inches on the forward facing side. The housing is 12.38 inches deep by 9 inches high. There are two Angled portions to allow for additional lighting for intersection clearing 17.55 inches by 9 inches at an approximate angle of 45 degrees. The condensers shall be Hoseline 2050D. They shall provide 2948 CFM of air flow across the condenser cooling coils with four 12VDC fans and provide 50,000 BTU's of cooling for the 12V side.

Primary manufacturers shall submit testing documentation from an independent laboratory for compliance with Federal Specification KKK-1822F with this proposal.

Bidder Complies YES _____ NO _____

BATTERY SYSTEM

The vehicle shall be supplied with a dual 12 volt battery system. Two (2) OEM batteries. The battery system shall be wired in accordance with KKK - A - 1822F. The system must meet SAE J541 for starter circuit voltage drop. The batteries shall be activated through the OEM ignition switch. The ignition switch shall only turn off power on the module and not the chassis circuits. When the ignition is shut off, a five minute time keeps the module powered up for unloading patients. A momentary rocker switch shall be installed which will disable the timer. It shall be labeled TIMER BYPASS. It shall be located on the side of the center console.

Bidder Complies YES _____ NO _____

ADDITIONAL BATTERY

Two (2) additional batteries shall be located in the Right Front Compartment. The batteries shall be Motorcraft 850cca.

Bidder Complies YES _____ NO _____

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INSTRUMENT CONSOLE

A console shall be installed to house the switching panel and radio installation. This console shall be attached under the dash below the line of sight of the driver. The console shall extend the full length of the cab between the driver's and passenger's seats. Provisions shall be made available for storage of convenience items for the crew. An access panel shall be installed on the top of the console to facilitate servicing. The switches shall be full size rocker switches with LED on the indicators. The switch assembly shall be 1.97 inches tall by 1.064 inches wide with silver plated copper contacts and a .250 inch spade type terminal. The switch and rocker material shall be a thermal set molding material. The complete switch assembly will be tested to withstand one thousand (1,000) volts RMS dielectric. Documentation of switch testing to be included with the bid. The switches must have a positive "throw" feel and an audible "click" upon activation.

Bidder Complies YES _____ NO _____

ADDITIONAL CONSOLE, MAP POCKETS, Bolt on at Rear of Cab Console

An additional console shall be installed at the rear of the Cab console to hold various Map Books. It shall be constructed of the same material as the Cab console. Clear Lexan dividers and binning strips shall be provided for adjustable storage. Two (2) cup holders shall also be provided at the rear of the console.

Bidder Complies YES _____ NO _____

ACTION AREA CONSOLE

There shall be a console in the action area of the rear patient compartment to house the switches. The console shall be manufactured out of 3/4" birch wood and be angled so that the switches will be easily accessible for an EMT in the attendant seat or a CPR seat.

Bidder Complies YES _____ NO _____

CUSTOM BROOM CLOSET CABINET, BEHIND ATTENDANT SEAT

Add Broom Closet cabinet behind the attendant seat. To front of action area. Cabinet shall have a full length aluminum door with latch. Interior shall have unistrut for two (2) adjustable shelves.

Bidder Complies YES _____ NO _____

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CUSTOM BULKHEAD CABINET BELOW PASSTHRU WINDOW

Install a full width cabinet below passthru window on front bulkhead. To extend from broom closet to wall of Right Front Cabinet. Upper portion to have a pull out drawer with locking latch. Below drawer, remainder of cabinet to have two (2) solid laminate doors w/ latches. Top of cabinet to have Stainless Steel countertop with lip.

Bidder Complies YES _____ NO _____

WHEEL COVERS

There shall be Phoenix Wheel Covers installed prior to delivery. They shall be model NF19 and shall include the extender kit for the rear wheels, model #AP4.

Bidder Complies YES _____ NO _____

VEHICLE BODY AND PATIENT AREA

BODY ACCOMMODATIONS

The ambulance body and patient compartment shall be sufficient in size to meet the requirements of paragraph 3.10.1 of Federal Specification KKK - A1822 - F. The interior layout shall be such that a technician can administer life support treatments to at least one person during transport. The modular body shall be (170") one hundred seventy inches in length and (95") ninety five inches wide.

Bidder Complies YES _____ NO _____

PATIENT COMPARTMENT INTERIOR DIMENSIONS

Length: As measured from the bulkhead to the inside edge of the rear doors, the floor shall be at least one hundred and forty three inches. There shall be at least (25") twenty five inches but not more than (30") thirty inches of clear space at the head of the primary patient, measured from the face of the backrest of the attendant's to the forward edge of the style one cot.

Width: Shall be measured after the installation of the street side cabinets will be (44 3/4") forty four and three quarter inches between the cabinet wall and the face of the squad bench.

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Height: The patient compartment shall provide at least (72") seventy two inches of height over the primary patient area from the floor to the ceiling.

Bidder Complies YES_____ NO_____

GENERAL BODY CONSTRUCTION

It is the intention of this agency to specify a modular body that is constructed solely of aluminum including side skins, roof skin, all structural box tubing, corner and roof extrusions, tapping plates, gusset plates, retention plates, doors, door extrusions, sub structure moisture barrier and drip rails. The modular shall be engineered, built and warranted by the primary manufacturer. This agency will not accept a proposal from a primary manufacturer, as defined within this document, that supplies a modular from an agency, builder, supplier, other than the primary manufacturer. This section shall be the construction parameters this agency has deemed as fair value. Primary manufacturers that deviate from these specifications may take exception as set forth in section A1.1.2.

Bidder Complies YES_____ NO_____

The exterior of the body shall be constructed utilizing a full six-sided box framework with a combination of high strength 6061-T1 and 6063-T6 alloy aluminum and having an outer surface of aluminum sheet with a temper and alloy of 5052-H32 for strength, weld integrity and corrosion resistance. The front, sides, and rear of the modular shall be configured from a single sheet of .090 aluminum. The one-piece sheets shall be used to maximize integrity against dust, toxic fumes, cracking, and moisture penetration. The openings for doors, warning lights and exterior compartments shall be cut on the horizontal plane with a computer controlled plasma cutter for accuracy and integrity of temper. The roof and side skins shall be installed utilizing a very high bond adhesive to allow absorption of vibration and to eliminate "panning". The skins shall be welded to the interlocking extrusion framework at the outer perimeter of the sheets by a programmable robotic welder using a MIG welding tip and Argon gas.

Bidder Complies YES_____ NO_____

The roof shall be a single .125 sheet of 5052-H32 alloy aluminum. The roof sheet shall be completely welded to the extruded roof assembly. The use of multi-section roofs shall not be acceptable due to the possibility of cracks causing environmental intrusion.

Bidder Complies YES_____ NO_____

The roof substructure assembly shall consist of four (4) perimeter roof rail extrusions, lateral roof bows and interconnecting corner caps. The roof rail extrusions shall be engineered and designed by the primary manufacturer and shall be double hollow of 6063-T6 .125 aluminum.

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An integrated roof recess shall be incorporated to create a smooth transition from the one-piece roof sheet to the perimeter drip rail. The perimeter drip rail shall be extruded as a design feature of the roof rail extrusion. The roof rail extrusion shall overlay the side skin by one half inch. The roof sheet shall be seam welded to the perimeter roof extrusion. The lateral roof bows shall be two inch by two inch by .125 square extrusions of 6061-T6 alloy aluminum. The structural members shall be located to support the roof skin on fourteen inches between roof bows. The roof bows shall interconnect with the roof rails and be continuously welded at all contact points. The finished roof shall incorporate a machine rolled crown of not less than one and half inches in height to provide additional strength and allow water run-off. A one inch by two inch by .125 6063-T6 extrusion shall be secured to the top of the vertical extrusions. The perimeter extrusion shall be welded to the vertical structures with a minimum of six inches of weld. An industrial adhesive shall be applied around the perimeter before the roof assembly is mated to the sill. The roof structure shall be attached to the sill and welded. To insure a complete contact with the industrial adhesive, mechanical fasteners shall be employed to cinch the roof structure to the sill.

Bidder Complies YES_____ NO_____

The corner caps shall be designed to interlock with the roof perimeter, vertical corner extrusions and roof sheet. The corner caps shall be cast aluminum made from matched metal dies to insure a smooth and pleasing appearance. The caps shall act as a stress relief device to absorb energy and disperse the force along the roof extrusions in the event of a collision. The outer edge DOT lights shall be installed as described in section 5.1.

Bidder Complies YES_____ NO_____

The corners of the modular body shall be designed and engineered by the primary manufacturer and constructed of 6063-T6 alloy aluminum. The corner extrusion shall be double hollow with a minimum thickness of .125 and .250 at the outer corner. The extrusion is designed with a unique forty-five degree angled appearance while maintaining very high strength and impact energy absorption. A polyurethane sealer shall be applied to seal the crevice between the corner extrusions and the side assemblies.

Bidder Complies YES_____ NO_____

The side assemblies shall be reinforced utilizing 6061-T6 alloy aluminum two by two box tubing. The side structures shall frame a perimeter around all door openings and shall be a minimum of .125 in thickness. Intermediate skin stiffeners shall be located to preclude skin deformation. Additional gusset plates shall be .250 inch aluminum and shall be welded at all contact points between the corner assembly and the roof perimeter.

Bidder Complies YES_____ NO_____

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This agency is extremely concerned with purchasing a vehicle from a primary manufacturer who can provide the necessary service after sale. Therefore, as previously stated, the modular shall have a fifteen year warranty and be engineered, designed and built by the primary manufacturer.

Bidder Complies YES _____ NO _____

This agency is extremely concerned that the modular body be designed and built with the highest level of integrity and quality. Documentation and certification that the modular body being proposed meets Static Load Test Code for Ambulance Body Structure AMD Standard 001 must be included with this proposal.

Bidder Complies YES _____ NO _____

Quality and Safety Documentation.

The ambulance manufacturer responding to this vehicle specification shall demonstrate to this Agency that the ambulance being proposed offers the highest possible quality and safety standards.

To meet this Agency's requirements for quality, the Bidder shall provide documentation that the ambulance manufacturer has in place a quality management system that meets the requirements of the International Organization for Standardization (ISO). A copy of the ISO Registration Certificate shall be included in the bid response.

To meet this Agency's requirements for safety standards, the Bidder shall provide documentation that the ambulance manufacturer has conducted "dynamic" testing to validate the design, manufacturing processes, materials and workmanship used in the production of the ambulance proposed in response to this specification.

To validate the materials, manufacturing processes, quality management system and workmanship utilized in the installation of seats, seat belts, secondary restraining devices, cabinet construction, oxygen cylinder retention and module to chassis attachment, a Hygee sled test shall be performed. This test shall simulate a frontal impact to the ambulance module at a minimal impact force of 20 g. A test report from a third-party testing agency independent of the ambulance manufacturer shall be submitted with the bid response proving compliance with this requirement.

Bidder Complies YES _____ NO _____

To validate the materials, manufacturing processes, quality management system and workmanship utilized in the construction of the modular body, the Bidder shall provide documentation that the ambulance manufacturer has conducted a side impact crash test. The Institute for Highway Safety (IIHS) Crash Test Protocol Version 5 shall be used as a guideline for this testing requirement.

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The “target” vehicle (Ambulance) shall be struck by the “bullet” (SUV / Pickup Truck) vehicle at the fore and aft center of gravity of the target vehicle. To comply with the requirements of this specification the bullet vehicle shall be a SUV or pickup truck with a minimum gross vehicle weight (GVW) of at least 4,000 lbs. To provide this Agency accurate data in a “real world” environment the use of a Moving Deformable Barrier (MDB) and cart as the “bullet” vehicle is not permissible.

The “target” vehicle (Ambulance) shall contain instrumented Anthropomorphic Test Devices (crash test dummy) meeting the following requirements and seating locations.

1. Squad Bench Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, and femur load cells.
2. Ambulance Cot - Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, and femur load cells.
3. Street Side CPR Seat - Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, lumbar load cell, and femur load cells.
4. Attendant Seat EuroSID 2 ATD instrumented with head accelerometers, upper neck, abdomen, and pubic load cells, and rib potentiometers.

For the purpose of determining **PASS FAIL** results, the Injury Assessment Reference Values (IARVs) from FMVSS 208, FMVSS 214 and the Insurance Institute for Highway Safety (IIHS) shall be used. A test report from a third-party testing agency independent of the ambulance manufacturer shall be submitted with the bid response proving compliance to this requirement.

Bidder Complies YES _____ NO _____

The above requirements are in addition to the current minimum requirements for testing as outlined in KKK-A-1822.

Additionally, all welders employed by the primary manufacturer shall be certified to the American Welding Society Standard AWS D12, and certification documents must be provided if requested.

All body welds shall not only be inspected by the primary manufacturer but shall also be inspected by an outside engineering firm and said firm shall conduct another visual inspection and a dye penetration test designed to reveal any flaws or imperfections in the welds. Documentation on this process must be provided if requested.

Bidder Complies YES _____ NO _____

VEHICLE BODY STRUCTURE

All parts of the ambulance body, as specified in paragraph 3.10.6 of Federal Specification KKK - A - 1822F, shall, where applicable, be of welded construction. Where fasteners are used in such

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areas as hinge attachment, hardware attachment, etc., the fasteners shall be ceramic coated aluminum and stainless steel. Any hole drilled into the modular body painted surface shall be coated with an ECK corrosion inhibitor prior to installation of the part. .

Bidder Complies YES _____ NO _____

Tapping plates of 6061-T6 alloy aluminum varying in widths of one quarter to one half inch shall be welded to the framing to secure the installation of equipment such as; cabinets, benches, partitions, cylinders, cot fasteners, etc. The body and panel joints shall be watertight and all openings between the chassis and modular shall be sealed. In addition, a drip rail shall be supplied over each exterior compartment. The drip rail shall be attached in such a manner as to provide for quick and easy replacement. Drips rails attached by mechanical fasteners shall not be used.

Bidder Complies YES _____ NO _____

BODY MOUNTING

The mounting system shall not cause any chassis frame deformation. There shall be ten mounting points, five on each frame rail. The modular body shall have full perimeter welded sill rails of one half inch by two inch of 6061-T6 alloy aluminum and be attached to the vehicle utilizing one inch by three inch sill plates of 6061-T6 alloy aluminum. The modular body shall be welded to the sill plates at every exposed seam. At all outrigger mounting locations, double compression, neoprene rubber isolator mounts shall be used to minimize chassis vibration transfer to the modular body. The modular body and sill plates shall be attached to the frame rails using three quarter inch grade eight bolts. Any method contrary to QVM which may void the chassis warranty shall not be accepted.

Bidder Complies YES _____ NO _____

FLOOR

The floor shall be at lowest level permitted by clearances, but not more than thirty-three inches from the ground. The floor structure shall consist of a two by two by .125 structural box section with 6061-T6 alloy aluminum. The floor structure shall be welded with eight inches of weld at every joint. The openings created for the placement of exterior compartments shall have six inches of weld to insure a smooth surface to fit the compartment in the structure. Tapping plates of one quarter inch and one half inch of 6061-T6 aluminum shall be completely welded both sides to the floor assembly. The finished floor assembly shall be securely welded to the wall structures with eight inches of weld and skipped welded every four inches to the exterior compartments. All critical load points shall be reinforced with one quarter inch by three inch by

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four inch gusset plates. Above the floor channels, there shall be an aluminum moisture shield .050 inches thick. The entire underside of the modular shall be sealed with a waterproof sealant. All hollow structural shapes or cavities shall be sealed utilizing an approved expandable foam.

Bidder Complies YES _____ NO _____

The rear patient access shall be equipped with an exterior aluminum threshold mount to the lower door jamb. This threshold will protect the bottom door jamb; in addition, the rear patient floor shall have a fourteen gauge stainless steel cot protector.

Bidder Complies YES _____ NO _____

EXTERIOR STORAGE ACCOMMODATIONS

The exterior compartments shall be constructed of .090 aluminum and shall be formed by a computer controlled brake and shear to decrease the amount of welding to fully enclose the compartment. The compartment, therefore, shall be water tight. The compartment shall be welded in place to the side and floor structure with an additional bracket welded to a bracket connecting the exterior wall two with the floor structure. The floor of the exterior compartments shall be at least two inches below the lower door frame lip to help prevent equipment from falling out should a door not be closed. The compartment floor shall be supported from beneath with one by two by .125 6061 T-6 rectangular tubing welded to the underside and the floor structure. All exterior compartments shall be vented above the floor line with machine stamp louvers. The exterior compartment shall be lockable with one key fitting all doors. The compartments shall be equipped with handle and door locks. Each exterior compartment shall be provided with a sealed light to be illuminated upon the door opening. The light shall be activated by a magnetic switch. A door open indicator light shall be visible on the driver's console. The compartment configuration shall be as described.

Bidder Complies YES _____ NO _____

PATIENT COMPARTMENT SOUND LEVEL

Shall meet the requirements of paragraph 3.13.8 of Federal Specification KKK - A - 1822F.

Bidder Complies YES _____ NO _____

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INTERIOR SURFACES

All vertical edges of cabinets shall be of a one inch radius finish design to free the interior of the patient's compartment of all sharp edges or projections.

Bidder Complies YES _____ NO _____

INTERIOR STOWAGE ACCOMMODATIONS

The interior of the patient compartment shall provide but not be limited to a minimum volume of thirty cubic feet of enclosed cabinets. Interior cabinet, shelf and compartment space shall be conveniently located for medical supplies, devices or other equipment. All interior cabinets shall be manufactured from two (2) pieces of pre-painted white .050 aluminum that is riveted together to aid in structural integrity of this compartment. The compartment is fastened to the front composite panel utilizing rivets and adhesive to insure structural integrity. The cabinets shall be insulated to aid in sound and vibrations dampening qualities. All adjustable shelving shall be constructed of .050 white pre-painted aluminum and be held in place with aluminum tracking that is mounted to the compartment walls with screws. The front and rear lip shall be one inch high and the sides shall be one inch downward formed to provide added strength. All lip edges shall be covered by color coordinated push on plastic protective edging. The equipment and supplies necessary for airway management shall be within easy reach of the medic at the head of the stretcher. Interior cabinet dimensions are as described.

Bidder Complies YES _____ NO _____

AISLE SPACE

The space between the primary wall cabinet and the squad bench shall be 50". The compartment shall provide a minimum of 20" of clear aisle walkway between the edge of the primary patient cot and base of the nearest vertical feature measured along the floor.

Bidder Complies YES _____ NO _____

MODULE BODY SKINS

The module skins shall all be 0.125 inches thick.

Bidder Complies YES _____ NO _____

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INTERIOR HEADROOM

The interior headroom shall be a minimum of 72 inches.

Bidder Complies YES _____ NO _____

RUBBER COATING

The interior of the compartments shall be sprayed with Scorpion X02 rubber coating in a gray color. Scorpion X02 is a three component acrylic-reinforced aliphatic, aromatic polyurethane protective coating system. The product has high tensile strength, excellent abrasion resistance, superior elongation, high non-skid rating, and excellent UV stability and weathering characteristics.

Bidder Complies YES _____ NO _____

RUBBER COATING

The rear bumper supports shall be sprayed with Scorpion X02 rubber coating in a black color. Scorpion X02 is a three component acrylic-reinforced aliphatic, aromatic polyurethane protective coating system. The product has high tensile strength, excellent abrasion resistance, superior elongation, high non-skid rating, and excellent UV stability and weathering characteristics.

Bidder Complies YES _____ NO _____

EXTERIOR COMPARTMENTS

The bottom of compartments B1, B2, D and E shall drop down 3 inches from the door opening for maximum storage space in the compartment. This will also help prevent items stored in the compartment from falling out if on uneven surface.

Bidder Complies YES _____ NO _____

EXTERIOR COMPARTMENTS

The bottom of compartments A and F shall be flush with the door opening to provide for a sweep out design. Sweep out on compartment F shall allow for ease of loading the oxygen bottle.

Bidder Complies YES _____ NO _____

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DURASEAM DOORS

All door frames to be cut to size using a programmable double miter saw to insure accuracy and repeatability of components. All latch, door pins, switch and tapped hinge holes are to be added to door frame and jamb by means of a programmable milling operation to maintain consistency of all hardware cutout positions.

The outer face of door shall be formed from one sheet of 5052-H32 aluminum. The door shall be flush with the body side. The outer skin shall be bonded to the door frame with structural adhesive that meets ASTM D 412 tensile strength, elongation, and elastic modulus. Adhesive to utilize micro spheres to maintain a constant bond thickness around the inside skin edge to seal entire skin to frame. The door frame shall meet exterior skin with a smooth seamless transition. There shall be no seams or crevices on the door or door frame which allows the possibility of corrosion.

Both patient compartment and exterior compartment doors shall be provided with extruded rubber seal system consisting of a hollow cell bulb gasket. The gasket shall insert into an appropriately designed groove in the inner door extrusion. This will provide the best seal possible. Glued on seals or seals that are mounted to the compartment openings are unacceptable as they will easily be torn by loading of equipment stored in the compartments.

All doors shall be attached using minimum ¼-20 stainless steel hex bolts with stainless steel piano hinge with a pin size of at least 0.250 inch in diameter. The hinge must be punched with 0.265 diameter holes for exact fit of door to jamb with ¼- 20 hex bolts. Maintaining the close tolerances allows a replacement door to be fabricated that will match the old door bolt pattern that can be mounted in exactly the same place with the close tolerances.

All compartment doors shall be constructed the same as the entry doors to ensure continued door alignment and matched latching capabilities. All access doors must be encased by a door jamb that is separate from the body skin and bonded in place with the same structural adhesive as described in paragraph two on page one. After jamb is bonded to skin, both skin and jamb are to be routed with the same radii as the door skin. After bonding to skin, the jamb is also welded to the 2" x 2" tubular body frame members. The door jamb shall be a 0.125"/0.380 thick 6063-T6 aluminum extrusion

The interior surface of the patient compartment doors (rear and curb side) shall be finished in a safe and attractive manner that harmonizes with the interior finish. The door panels shall be designed to allow removal without disturbing the door latching hardware. The door panels shall be attached using automotive speed clips in conjunction with foam pads to enhance sound deadening. Door panels must be flush fitting not overlay. Doors using pliable materials such as upholstery are prohibited due to greater risk of contamination by blood borne pathogens through stitching or when cut or torn.

The three (3) patient compartment doors shall be fitted with stainless steel, flush fit, "paddle latch" hardware on the interior and "automotive style" handles on the exterior. The patient compartment doors shall be provided with a keyed lock and the rear doors and side door shall be

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lockable from the inside without a key per FVMSS. All patient compartment doors shall have emergency release handles to activate rotary latches in the event of door component failure.

All entry and compartment doors shall be insulated with 2-1/2" thick closed cell block foam insulation.

When the doors are opened, the hinges, latches and door checks shall not protrude into the access area. All patient compartment doors shall employ the same type locking hardware. All door latches shall comply with requirements of FVMSS 206.

The locking devices shall be two-stage rotary latches and shall be FMVSS 206 certified. Where applicable there shall be two door latches, one at the top and one at the bottom, controlled by a single locking handle. The Latches shall lock into an adjustable "Nader" type pin located in the door frame. The Nader pin will utilize a captive nut to provide adjustment and replacement without loss of nut plate. The locking system shall be activated from the locking handle by metal push rods.

The outside door handles shall be a rugged "automotive style" that are near flush with door skin. These handles shall provide adequate clearance for the use of gloves. The hand/ glove clearance area of the handle shall be a minimum of .812" deep and 4.125" long. On the curb side and rear doors, the inside handle shall be a "paddle style" type constructed from stainless steel and shall be equipped with an inside door lock. All exterior storage compartments and module entry doors shall be lockable with the same key.

The compartment and entry doors shall be painted separately from the body. The doors shall then be installed on the painted module jamb. A Corrosion inhibitor shall be applied to both the door frame and jamb side of the hinge leafs. Additional corrosion inhibitor to be applied in all screw holes in both door frame and jamb.

Bidder Complies YES _____ NO _____

COMPARTMENT A

Compartment A is the passenger side forward compartment. The door opening (Exterior Access) shall be deleted.

The lower battery compartment for the additional batteries shall remain.

Bidder Complies YES _____ NO _____

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COMPARTMENT B1

Compartment B1 is on the passenger side just behind the rear wheel. The door opening dimensions shall be a minimum of 19.25 inches high and 15 inches wide. The interior dimensions shall be approximately 22.5 inches high and 16.5 inches wide and 18.75 inches deep.

Bidder Complies YES_____ NO_____

COMPARTMENT B2

Compartment B2 is the passenger side rear compartment. The door opening dimensions shall be a minimum of 81.75 inches high and 22 inches wide. The interior dimensions shall be approximately 85.0 inches high and 24.75 inches wide and 18.5 inches deep.

Bidder Complies YES_____ NO_____

COMPARTMENT D

Compartment D is the driver's side rear compartment. The door opening dimensions shall be a minimum of 58.5 inches high and 32.25 inches wide. The interior dimensions shall be approximately 62 inches high and 36.5 inches wide and 18.5 inches deep. This compartment shall have double doors. The D Compartment shall also have a fixed aluminum shelf installed at the upper portion of the compartment, 12 inches down from the compartment top. There shall also be a fixed divider from the shelf to the ceiling. This divider shall be centered to split the area above the shelf into two (2) equal openings, to house crewmembers' helmets and gloves.

Bidder Complies YES_____ NO_____

COMPARTMENT E

Compartment E is on the driver's side just forward of the rear wheel. The door opening dimensions shall be a minimum of 36 inches high and 39 inches wide. The interior dimensions shall be approximately 38.75 inches high and 40.5 inches wide and 18.5 inches deep. This compartment shall have double doors.

Bidder Complies YES_____ NO_____

DOGLEG IN COMPARTMENT "E"

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There shall be a dogleg in the compartment "E" to allow the suction container on the interior to be recessed into the face of the action area.

Bidder Complies YES _____ NO _____

COMPARTMENT F

Compartment F is the driver's side forward compartment. The door opening dimensions shall be a minimum of 80.5 inches high and 18.25 inches wide. The interior dimensions shall be approximately 81.5 inches high and 18.5 inches wide and 18.5 inches deep.

Bidder Complies YES _____ NO _____

DOGGLE IN COMPARTMENT "F"

There shall be a dogleg in compartment "F" for the storage of a stair chair.

Confirm that dogleg will accommodate a Stryker Model 6252 Stair Chair.

Equipment Dimensions

Height 37.5", Width 20.5", Folded Depth 8"

Bidder Complies YES _____ NO _____

FUEL FILL HOUSING

A cast aluminum fuel fill housing shall be installed according to the chassis manufacturer's instructions.

Bidder Complies YES _____ NO _____

EXTERIOR VERTICAL DIVIDERS

One (1) vertical divider shall be located in compartment B2. It shall be manufactured of 3/16 inch thick aluminum and be painted with scratch resistant gray rubber coating. The divider shall be approximately 11 inches wide and extend from the top of the compartment to the bottom.

Bidder Complies YES _____ NO _____

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EXTERIOR VERTICAL DIVIDERS

One (1) vertical divider shall be located in the Left Front compartment as directed by this agency. It shall be manufactured of .188 aluminum and be painted with scratch resistant gray rubbercoating. The divider shall be approximately 11 inches wide and extend from the bottom of the compartment to the top. It shall be centered in the compartment.

Bidder Complies YES _____ NO _____

EXTERIOR COMPARTMENT SHELF

The exterior compartment shelves shall be manufactured from 0.125 inch aluminum. Each shelf shall have a 0.125 inch thick ribbed rubber mat. The shelf track shall be a heavy duty extruded aluminum. There shall be a shelf in each of the following compartments: A, B2, D, E, F.

Bidder Complies YES _____ NO _____

EXTERIOR ELECTRICAL SHELF

A fixed exterior shelf shall be located in the left center compartment "E" near the top of the compartment. It shall serve the sole purpose of holding electrical equipment.

Bidder Complies YES _____ NO _____

STEP WELL AND WINDOWS

The curbside door step well shall have a light recessed into wall one of the step well. It shall be automatically lit when the side and rear doors are opened. The light shall be activated by a switch. The step well shall be finished with a polished aluminum diamond plate. There shall be a window in each of the three patient access doors. The window frame shall be of an extruded aluminum design with a protective anodized finish. The curbside entry door window shall include a sliding window to allow for fresh air when needed. The two rear door windows shall have fixed glass. The glass shall have a privacy tint.

The curbside window shall have the following dimensions: 26 1/2 inches high and 19 1/2 inches wide. The rear windows shall be 22 1/2 inches high and 13 1/2 inches wide.

Bidder Complies YES _____ NO _____

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PATIENT ENTRY DOOR LATCHES, HINGES AND HARDWARE

When the doors are opened, the hinges, latches and door checks shall not protrude into the patient compartment. All patient doors shall employ the same type of locking hardware. All door latches shall comply with FMVSS 206. The locking devices shall be two stage rotary latches and shall be in accordance with FMVSS. There shall be two (2) door latches, one at the top and one at the bottom, controlled by single locking handles. The latches shall lock into an adjustable Nader type pin located in the door frame. The Nader will utilize a captive nut to provide adjustment and replacement without loss of the nut plate. The door latching mechanism shall have an upper and lower patented "Emergency Release Latch" to allow egress from the vehicle if a system failure should occur.

Bidder Complies YES_____ NO_____

The door handles shall be Trimark OEM style handles with a large enough space for gloved hands to operate the handles. The door handles shall be free floating with 1008 cold rolled steel mechanical components with Nitrotec treated wear components. The locks shall be a KeyOne Plus lock cylinder with a reversible key. The KeyOne Plus system allows the lock core to be removed with a special key and allows it to be rekeyed for additional security and keying fleets the same. The rear trailing door shall have a patented side release paddle handle that removes the necessity of reaching inside the patient compartment door. The door entry system shall have been tested to 100,000 cycles.

Bidder Complies YES_____ NO_____

The locking system shall be from the locking handle by aluminum push rods. The patient compartment doors will be equipped with an inside door lock. All entry doors shall have horizontal aluminum reinforcements welded to the door frame and the entry doors shall have closed cell block foam insulation.

Bidder Complies YES_____ NO_____

COMPARTMENT DOOR LATCHES, HINGES AND HARDWARE

When the doors are opened, the hinges, latches and door checks shall not protrude into the patient compartment. All compartment doors shall employ the same type of locking hardware. All door latches shall comply with FMVSS 206. The locking devices shall be two stage rotary latches and shall be in accordance with FMVSS. There shall be two (2) door latches, one at the top and one at the bottom, controlled by single locking handles. The latches shall lock into an adjustable Nader type pin located in the door frame. The Nader will utilize a captive nut to provide adjustment and replacement without loss of the nut plate.

Bidder Complies YES_____ NO_____

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The compartment door handles shall be Trimark OEM style handle with a large enough space for gloved hands to operate the handle. The door handles shall be free floating with 1008 cold rolled steel mechanical components with Nitrotec treated wear components. The locks shall be a KeyOne Plus lock cylinder with a reversible key. The KeyOne Plus system allows the lock core to be removed with a special key and allows it to be rekeyed for additional security and keying fleets the same. The compartment door entry system shall have been tested to 50,000 cycles. The door handle shall be mounted to the exterior door panel using mechanical fasteners and rubber gaskets that will eliminate the possibility of electrolysis. All doors shall have closed cell block foam insulation.

Bidder Complies YES _____ NO _____

OEM DOOR LOCKS

The OEM electric door switches shall lock and unlock the compartment and entry doors.

Bidder Complies YES _____ NO _____

POWER DOOR LOCKS

The module entry doors shall include power door locks that enable remote activation.

Bidder Complies YES _____ NO _____

POWER DOOR LOCKS

The five (5) compartment doors shall include power door locks that enable remote activation.

Bidder Complies YES _____ NO _____

SWITCH, MOMENTARY ROCKER, ACTIVATE ELECTRIC DOOR LOCKS

A momentary rocker switch shall be located on the curbside wall at the head of the squadbench, and enable the power door locks for the compartment and entry doors.

Bidder Complies YES _____ NO _____

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SWITCH, STEALTH, CAB DOORS

A stealth switch shall be located in the rear license plate bezel and enable the power door locks for the cab doors. The switch must be weather resistant.

Bidder Complies YES _____ NO _____

CIRCUIT, OEM DOOR LOCK TO ACTIVATE MODULE DOORS.

A circuit shall be installed to enable the power door locks for the compartment and entry doors to be operated off the OEM cab door lock switches.

Bidder Complies YES _____ NO _____

REAR DOOR HOLD OPENS

The rear doors shall be held open by two (2) 5.5 inch Cast Grabber. The U shaped piece shall be attached to the door. It shall enter into a rubber insert when the door is in the open position. A corrosion inhibitor shall be applied to the mounting holes prior to installation. They shall be installed so doors will open as wide as possible.

Bidder Complies YES _____ NO _____

COMPARTMENT DOOR HOLD OPEN

Six (6) Compartments shall have a 30 pound gas strut in lieu of a spring loaded hold open.

Bidder Complies YES _____ NO _____

COMPARTMENT DOOR HOLD OPEN

The right front compartment shall have a 30 pound gas strut in lieu of a spring loaded hold open.

Bidder Complies YES _____ NO _____

DOOR PANELS

The upper and lower portion of the curbside and rear access door panels shall be brushed stainless steel. The center shall be reflective red/white reflective chevron covered aluminum.

Bidder Complies YES _____ NO _____

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REAR FENDERS

Bright finish aluminum fender flares shall be provided around the rear wheel well openings to provide protection from wheel wash. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

Bidder Complies YES_____ NO_____

BUMPERS AND STEP

The chassis manufacturer shall supply the vehicle's front bumper. The rear bumper and step assembly shall be a single unit constructed of ten gauge steel "C" formed channel and .100 inch thick aluminum tread plate as measured at the thinnest point of the tread plate. The center step of the bumper assembly shall be designed to allow it to flip up and out of the way to facilitate patient loading. The flip up section of the of the rear bumper shall be diamond plate to meet the requirements of KKK - A - 1822F specification. The diamond plate flip up step shall be punched with three rows of raised star-shaped holes to create additional non-skid surface. A 1.5" x 2" x 0.125" aluminum box tube shall be welded inside the step full width on the side farthest from the rear of the vehicle. A stainless steel hinge with a center pin of .250 inch shall be used to attach the flip up section of the rear step to the main rear bumper assembly. There shall be eye beam constructed skid plates with tow eyes mounted as part of the frame of the bumper. This assembly shall be bolted to the frame of the chassis with 5/8 inch Grade 8 bolts. There shall be a one half inch clearance between the bumper assembly and the rear of the modular body to allow water drainage and inhibit water collection. There shall be a two inch red LED marker light on the street side and curb side of the bumper assembly. These lights shall be a sealed unit and the connectors protected with an adhesive heat shrink. The lights shall illuminate with the vehicle head light control.

Bidder Complies YES_____ NO_____

REAR DOCK BUMPERS

Dock bumpers shall be installed on each outboard pontoon on the rear bumper. The dock bumpers shall measure 10 inches wide and 4 1/2 inches high and 3 inches deep.

Bidder Complies YES_____ NO_____

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RUNNING BOARDS

Diamond plate running boards shall be installed just under the cab doors for both the driver and passenger. The diamond plate step shall be punched with rows of raised star-shaped holes to create additional non-skid surface. The boards shall allow for easy entry into the cab.

Bidder Complies YES_____ NO_____

SKIRT RAILS

The street side and curbside modular body shall be provided with aluminum diamond plate skirt line trim rails. The rails shall be installed along the lower edge of the body. The rails shall be offset from the sides by a minimum of one half inch to prevent water and road wash from collecting between the rail and modular rail. Nylon spacers shall be used to install the rails to eliminate the possibility of electrolysis. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

Bidder Complies YES_____ NO_____

FRONT STONE GUARDS

The lower front corners of the patient compartment shall have stone guards attached to the corner extrusion. They shall be diamond plate aluminum and extend from the bottom edge of the corner extrusion up approximately 13 inches. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

Bidder Complies YES_____ NO_____

REAR KICK PLATE

Above the rear bumper and below the rear doors, there shall be a full length riser of aluminum diamond plate for a protective kick panel. The kick panel shall be securely fastened with ceramic coated stainless steel screws to inhibit rust that could result from electrolysis and run the full rear width of the module. Pop rivets are not acceptable. There shall be a recess in the center of the kick plate for the installation of the tag holder.

Bidder Complies YES_____ NO_____

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RECOVERY DEVICES

The rear of the patient compartment shall have two (2) black tow eyes that are accessed through two holes in the rear kick plate. The holes in the kick plate shall be covered with a rubber covered metal trim.

Bidder Complies YES_____ NO_____

LICENSE PLATE HOLDER

A Cast Products license plate holder shall be installed in the rear kickplate.

Bidder Complies YES_____ NO_____

COMPARTMENT SILL PROTECTORS

All compartments shall have a stainless steel sill protector. The sill protectors shall be manufactured from 20 gauge stainless steel and cover the bottom door frame protecting it from scratches.

Bidder Complies YES_____ NO_____

ELECTRIC STEP

A Kwikie Products electric step, model #33 with cover, shall be installed under the curbside entry door. The step shall automatically open when the curbside door is opened. It shall also be equipped with an override switch to disable the automatic function.

Bidder Complies YES_____ NO_____

ELECTRIC STEP, SWITCHED, MANUAL OVERRIDE.

A switch shall be provided near the curbside entry door to manually extend the Kwikie Step. Manual operation will only operate when curbside door is open and vehicle is in park. Closing door will automatically retract the step.

Bidder Complies YES_____ NO_____

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STEP WELL

The curbside entry stepwell shall be a double step due to the drop skirt making the initial step lower and, therefore, not ergonomic for entry into the vehicle. The steps shall be approximately equal in rise and run.

Bidder Complies YES_____ NO_____

REAR MUD FLAPS

Rear mud flaps shall be installed just behind the rear tires.

Bidder Complies YES_____ NO_____

PREPARATION FOR PAINTING, COLOR AND MARKINGS

Color, Paint and Finish. Ambulance body and all attached equipment exterior surfaces, except polished metal parts, shall be thoroughly cleaned, treated, and coated with a firm primer and preservative with rust inhibiting properties, and painted white to match the OEM chassis. Ferrous metal interior surfaces shall be painted or, when not exposed for painting, shall be treated or coated to resist corrosion.

The final stage manufacturer's painted components shall have a paint film not less than 1.25 mils. thick and a minimum total thickness of 4 mils., including primers. The final film of painted surfaces shall be smooth and uniform, free of grit, streaks, blushing, runs, sagging, blisters, "fish-eyes," "orange peel", pinholes, or other surface irregularities. Exterior finish paint shall not be required on the underbody and inside surface of the body skirting. The modular body shall be painted with an AkzoNobel (or equal) high quality automotive polyurethane acrylic paint.

Bidder Complies YES_____ NO_____

All modular body doors shall be removed prior to painting and shall be painted separately from the modular body. After painting, the doors are to be re-installed. The doors shall be painted using the same method as the modular body.

Bidder Complies YES_____ NO_____

Modular Body Preparation. The entire exterior of the modular body shall be cleaned and prepared for painting according to the following minimum requirements:

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Substrate Preparation:

- The modular body shall be thoroughly degreased using an acetone degreaser and the wipe on – wipe off method.
- Any areas that require filling will first be abraded with 80 grit sandpaper using a DA orbital sander. If any welds require grinding, 24 grit paper shall be used. Any plastic filler used shall be mixed and applied per Manufacturer’s instructions. After filler application, the surface shall be prepared using 80 grit sandpaper followed by 120 grit paper using a DA orbital sander.
- A minimum of two (2) coats of Wash primer EMCF shall be applied to all plastic filler areas allowing to flash five (5) minutes between coats.
- The Wash primer shall be sanded with 320 grit sandpaper using a DM orbital sander.
- A fine textured glazing putty shall be used to fill any additional surface flaws, pinholes and/or scratch marks. After curing, the surface shall be sanded with 320 grit sandpaper using a DA orbital sander.
- The substrate shall be sanded with 180 grit sandpaper using a DA orbital sander to remove any final imperfections.
- The modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.
- All corner extrusions and the top drip rail to be caulked as necessary.

Bidder Complies YES _____ NO _____

Aluminum Pretreatment. The modular body shall be pretreated with a chromium free conversion coating that is specifically formulated for treating aluminum and its alloys. Prior to the pretreatment application, all diamond plate is to either be removed or properly masked to prevent staining. After application, the modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.

Bidder Complies YES _____ NO _____

Wash Primer. The modular body shall be primed with a medium build, chromate-free, self-etching wash primer that offers excellent corrosion resistance without the use of metal preps and conditioners. There shall be a minimum of two (2) medium wet coats applied allowing a five (5) minute flash between each coat. The final coat shall be allowed to flash for 30 minutes. The primer shall be sanded with 320 grit sandpaper using a DA orbital sander or 400 grit dry sandpaper by hand. After sanding, the modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.

Bidder Complies YES _____ NO _____

Sealer. To enhance the adhesion between the substrate and top coat of paint, a transparent sealer/adhesion promoter shall be applied to the modular body. A minimum of two (2) wet coats

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of sealer shall be applied. The initial coat shall be allowed to flash ten (10) minutes before the application of the second coat. Once the sealer has cured, the body is to be sanded smooth with 320 grit sandpaper using a DA orbital sander.

Bidder Complies YES _____ NO _____

Top Coat. The top coat of paint shall be a high solid two-component polyurethane enamel, suitable for automotive refinishing, trucks and equipment. Paint shall provide an easy application with excellent flow along with superior gloss and durability in a two-coat application.

Bidder Complies YES _____ NO _____

Final Sand and Buff The entire exterior surface of the module shall be sanded with a minimum 1200 to 1500 grit sand paper and then followed by 3000 grit wet sandpaper. The exterior of the module will then be polished using the 3M 3000 buffing system with 3M Perfect-It III buffing compound to provide a smooth, high gloss final surface finish. This process shall provide a smooth, high gloss finish that is resistant to scratching and chipping if proper vehicle care is taken.

Bidder Complies YES _____ NO _____

Color Standards and Tolerances. Shall be as required by paragraph 3.16.2.1 of Federal Specification KKK-A-1822F.

Bidder Complies YES _____ NO _____

Salt Spray Resistance. Shall meet the requirements of paragraph 3.16.3 of Federal Specification KKK-A-1822F.

Bidder Complies YES _____ NO _____

PINSTRIPES

A gold non- reflective 1/4 inch pinstripe shall be installed along the red/white paint belt edges.

Bidder Complies YES _____ NO _____

ROOF TOP MARKINGS

A "Star of Life" of not less than 32 inches and conforming to KKK-1822F section 3.16.4.C shall be installed on the ambulance rooftop.

Bidder Complies YES _____ NO _____

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ELECTRICAL SYSTEMS AND COMPONENTS

The emergency medical vehicle's electrical system must meet KKK - A1822 - F Section 3.7.1. This agency will specify systems, components, materials, and production methods within this section. However, failures can occur whether the vehicle is under warranty or outside the warranty parameters. This agency operates the vehicle on a twenty four hours a day, seven days a week (24/7) basis. Therefore, the primary manufacturer will provide a local service facility during regular business hours and a 24/7 support service staffed by trained technicians to assist this agency. **NO EXCEPTIONS**

Local service facility _____

24/7 Service assistance, phone number _____

Bidder Complies YES _____ NO _____

The driver and patient compartment control consoles shall be constructed in a way that the switches and any gauges are easily serviced. They shall be accessible through service panels. These panels will be secured in the closed position in a positive manner, yet can be easily opened for service.

Bidder Complies YES _____ NO _____

The control console gauges shall be internally illuminated and controlled by the headlight switch rheostat. All lights and fixtures installed on the module exterior shall have a corrosion inhibitor applied to all mounting holes prior to installation.

Bidder Complies YES _____ NO _____

The driver and patient console shall incorporate full size "Euro-Style" rocker switches. The switch assembly shall be 1.97 inches tall by 1.064 inches wide with silver plated copper contacts and a .250 inch spade type terminal. The rocker switch shall incorporate a LED indicator lamp and rated at 15 Amps continuous service. The switch and rocker shall be of a thermo set molding material. The complete switch assembly shall be designed to withstand one thousand (1,000) volts RMS dielectric test. The switches shall have a positive "throw" feel and an audible click upon activation and deactivation

Bidder Complies YES _____ NO _____

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The rocker switches, as described in section 4.1.3, shall have an integrated label lens area that is illuminated by two (2) independent LED's. The LED brightness shall be controlled by the headlight rheostat. The label shall be white legends on black poly carbonate background.

Bidder Complies YES_____ NO_____

The OEM throttle monitor shall be mounted in the primary manufacturer's console. It shall be mounted to be easily accessible to the driver.

Bidder Complies YES_____ NO_____

WARNING INDICATORS

The electrical system shall incorporate a warning light panel in the driver's console. It shall provide indicator lights for showing when a patient compartment door(s), side and rear, are open. This shall be a flashing red LED light. There shall be an exterior compartment "door open" warning light. This shall be a flashing red LED light of the same size.

Bidder Complies YES_____ NO_____

A battery indicator light shall be provided. It will be a green light located in the warning light panel. It shall illuminate when the battery switch is in the "ON" position. The light shall be steady burn to indicate the batteries have been selected.

Bidder Complies YES_____ NO_____

WIRING INSTALLATION

The ambulance body and accessory electrical equipment shall be served by circuit(s) separate and distinct from the vehicle chassis circuits. Wiring methods must conform to SAE J1292. All wiring provided by the primary manufacturer shall be copper and conform to all the SAE J1127 and SAE J1128 requirements. All low tension primary cable shall have GXL or better insulation. All low tension battery cable shall have SGX insulation. Documentation from the wiring manufacturer that the wire used by the primary manufacturer is in compliance with this requirement shall be submitted with the proposal. Bids not meeting this requirement will not be accepted.

Bidder Complies YES_____ NO_____

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The wiring shall be permanently color coded to identify wire function. Wires shall be permanently heat ink embossed with both number and function codes. The function code shall be the descriptive name of the circuit served. The number code shall be the exact purpose of that circuit. This number code shall be completely referenced in a detailed wiring schematic provided with the vehicle. The function and number code shall be embossed at a minimum of four inch intervals the entire length of the wire terminating into all switch and control panels. The use of multi-conductor cable must be function and color coded and shown on the wiring diagram.

Bidder Complies YES _____ NO _____

Wiring shall be routed in conduit or high temperature looms with a rating of 300 degrees Fahrenheit where necessary to protect it. All added wiring shall be located in accessible, enclosed, and protected locations and kept at least six inches from the exhaust system components. Electrical wiring and components shall not terminate or be routed in the oxygen storage compartment except for the oxygen controlled solenoid, compartment light, and switch. All conduits, looms, and wiring shall be secured to the body or frame with insulated metal cable straps in order to prevent sagging and movement which results in chafing, pinching, snagging or any other damage. All apertures on the vehicle shall be properly grommeted and sealed for passing wiring and conform to SAE 1292. All items used for protecting or securing the wiring shall be appropriate for the specific application and be standard automotive, aircraft marine, or electronic hardware.

Bidder Complies YES _____ NO _____

Circuit connections shall be made on barrier style terminal blocks utilizing binding post screws for positive mechanical connections. In order to minimize the potential for wiring shorts and voltage drops, all wiring terminals shall be brass, tin plated, annealed, ETP copper with nylon high heat insulation. Serrations, inside the barrel, provide maximum contact and tensile strength after crimping. Connection shall be machine crimped, UL standards, with a high quality crimping tool that produces crimps for a given size wire and terminal that are precisely alike in appearance and performance. Crimping pressure must be controlled by a ratchet device on the hand tool or a corresponding pre-calibration in the crimping jaws of an automated machine. Crimping pressure can neither over-stress nor under-stress the terminal-barrel-machined dies.

Bidder Complies YES _____ NO _____

No splices shall be permitted except for connection of "pig-tail" devices. Butt splices are permitted for connection of "pig-tail" devices. The use of IDC (Insulation Displacement Conductor) connectors, ie: "3M Scotchlok" type fasteners, is not acceptable.

Bidder Complies YES _____ NO _____

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The various wiring installations as supplied with this vehicle shall be of the automotive "harness" design. For ease of identification and future replacement, these harnesses shall be engineered and manufactured in the following sections.

1. Engine compartment harness.
2. Driver's control console harness.
3. Main module harness.
4. Chassis rear lighting harness.

This agency is extremely concerned the primary manufacturer has the ability to control, warranty and replace the harnesses. To that end, the primary manufacturer shall not subcontract the construction of these harnesses.

Bidder Complies YES _____ NO _____

WIRING CRITERIA AND CIRCUIT BOARD

All wiring devices, switches, outlets, etc., except circuit breakers, shall be rated to carry a minimum of one hundred and twenty-five percent (125%) of the maximum ampere load for which the circuit is protected. All wires carrying a load of more than 5 amperes shall be a minimum of 16 AWG. There shall be a master electrical component panel located in the vehicle. It is preferred that the master panel be mounted on or near the bulkhead of the patient compartment. Standard circuit breakers, relays, and diodes shall be mounted on a printed circuit board that is easily accessible. All components on the circuit board are to be permanently labeled as their function.

Bidder Complies YES _____ NO _____

The printed circuit board shall be designed and manufactured as follows: A screen printed board with all circuits fully numbered and labeled. The circuit board shall be a double-sided copper trace printed circuit with a double-sided laminated isolator. The board shall be non-photo imageable solder mask over bare copper with hot air leveled solder over non masked copper. Fuse capacity is the beginning factor in calculating trace width to ensure proper current carrying capability. The circuits shall then be oversized as much as space permits for maximum cooling of the board. All holes shall be plated through. The terminal strips shall be mounted on the board for connection of the above mentioned wiring harness. Automotive transient suppressers must be incorporated into circuit board at the point of cable entry to the board. All relays must include built in noise suppression. The suppression must be accomplished with a IN4001 parallel with the coil. The relay must have a 40 ampere continuous contact rating with one form C contact arrangement. Normally open contact must have a maximum initial voltage drop of 200 millivolts at 40 ampere contact load. The relays must withstand 24 VDC for five minutes conducting rated

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contact current in case of accidental 24 volt jump start condition. Circuit board options must be programmable via jumpers to facilitate addition of options. The color of wire and circuit number must be screened printed at the terminal block connections on the board for rapid identification and relation to schematics.

Documentation that the above requirements are met must be included with the bid document.

Bidder Complies YES_____ NO_____

The printed circuit board shall incorporate red LED indicators for on board diagnostics for input, output, and switching circuits for troubleshooting at a glance.

Bidder Complies YES_____ NO_____

CIRCUIT BOARD CERTIFICATION

The printed circuit board must meet the following specifications:

1. Packaging and Interconnecting Acceptability Standard number IPC 600
2. UL-796
3. Solder mask, IPC number SM-840
4. Solder in conformance with MIL SPEC QS-571
5. Laminate in conformance with IPC number 4101

Certification must be included with this bid.

Bidder Complies YES_____ NO_____

A service loop of wire or harness, per KKK-A1822-F specification, shall be provided at all electrical components, terminals, and connection points. All relays shall be mounted for ease of serviceability. All high current diodes greater than 5 amperes shall be heat sink mounted. To provide the optimum circuit "overload" protection, the electrical system's main circuit board shall allow for the use of stud type automatic reset pole breakers. One spare 15 ampere circuit breaker shall be provided for future use. A solid state electronic flasher shall be heat sink mounted to the panel for control of the flashing warning light system. All wiring between the cab and module shall be connected to a terminal strip(s) or block(s) or use multi pin connectors on the electrical component panel and shall provide for future module replacement. All connectors and terminals provided shall comply with SAE J163, J561, or J928 as applicable.

Bidder Complies YES_____ NO_____

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MASTER MODULE DISCONNECT SWITCH OR DEVICE

This device shall be located on the driver's compartment console and shall be permanently labeled and back lighted with a LED light and the brightness controlled by the head light rheostat. The "MASTER" disconnect switch shall be considerably different in size and feel from the other console switches.

Bidder Complies YES _____ NO _____

PATIENT COMPARTMENT CONTROLS

All switches and controls for the patient compartment shall be located on a service panel in the Action Area angled slightly toward the rear of the vehicle. The switches and controls shall be identical as referenced in section 4.1.3 of this document. These switches shall not function until the "MASTER" switch in the driver's console is in the "ON" position. The patient compartment switches shall be permanently marked and back lighted by a LED light.

Bidder Complies YES _____ NO _____

ELECTROMAGNETIC RADIATION AND SUPPRESSION

Must meet KKK - A1822 - F specification. Documentation from an independent testing laboratory must be included with the bid.

ANTENNA CABLE INSTALLATION

An additional coax cable shall be installed and meet the requirements of paragraph 3.14.3 of Federal Specification KKK - A - 1822F as follows:

Four (4) Coax Cable, RG58/U shall be supplied as follows:

- One (1) - From module roof port number #1 to behind the passenger seat Standard - with 6' pigtails
- One (1) - From module roof port number #3 to behind passenger seat standard - with 6' pigtails
- Two (2) - From Roof Port # 2 and # 4 to terminate in the Action Area - with 6' pigtails

Bidder Complies YES _____ NO _____

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ANTENNA BASE(S)

Four (4) Motorola Antenna Bases shall be installed on the roof of the patient compartment. The antenna shall include a coax that shall terminate as follows. The coax shall be RG-58ULTRA, tinned copper braid and aluminum foil for 100% shielding.

- Roof Port # 1 to behind the Passenger Seat – with 6’ pigtail
- Roof Port # 2 to behind the Action Area Switch Panel – with 6’ pigtail
- Roof Port # 3 to behind the passenger seat - with 6’ pigtail
- Roof Port # 4 to behind the Action Area Switch Panel – with 6’ pigtail

Bidder Complies YES _____ NO _____

INTERNAL 12 VOLT DC POWER

The patient compartment shall be furnished with a 12 volt DC, 20 ampere capacity, separately protected circuit, with two outlets. The outlets shall be Cigar Lighters and shall be located in the Action Area.

Bidder Complies YES _____ NO _____

INTERNAL 12 VOLT DC POWER

Six (6) additional Cigar Lighter outlets shall be installed as follows:

Wire Constant Hot

- 1 - On A/A wall, at left, IATS.
- 1 - RF Cabinet "E1", wall #2, next to 110 VAC Outlet
- 2 - Center Console in Cab, 1 on Driver's side, 1 on pass side
- 1 - On bulkhead inside pass-thru opening, above S1 countertop
- 1 - RF Cabinet "E2", Wall 2, up high, next to 110 VAC Outlet

Bidder Complies YES _____ NO _____

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PORT 5 VOLT DC POWER USB STYLE

The Driver's compartment shall be furnished with a 5 volt DC, 2.1 ampere capacity, separately protected circuit, with a Dual USB outlet. It shall be located in the center console to the passenger side.

Bidder Complies YES _____ NO _____

POWER SOURCE

A 12VDC power source shall power customer supplied portable battery charging devices. It shall be 20 amp and ignition/shoreline switch hot. The power source shall be split into two locations tagged and identified (1) behind driver's seat and (1) behind action area in module.

Bidder Complies YES _____ NO _____

POWER SOURCE

A 12VDC power source shall be supplied and terminate in the cab console. It shall be 15 amp and ignition hot. It shall have a 6' pigtail (Hot and Ground).

Bidder Complies YES _____ NO _____

POWER SOURCE

A 12VDC power source shall be supplied and terminate behind the Action Area Console. It shall be 20 amp and constant hot. It shall have a 6' pigtail (Hot and Ground).

Bidder Complies YES _____ NO _____

POWER SOURCE

A 12VDC power source shall be supplied and terminate behind the passenger seat. It shall be 30 amp and constant hot. It shall have a 6' pigtail (Hot and Ground).

Bidder Complies YES _____ NO _____

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INDICATOR LIGHT

A Shoreline Indicator Light shall be installed near the Shoreline inlet. A green light shall indicate that there is power from the GFI breaker to the Shoreline inlet. It shall be located above the Shoreline inlet.

Bidder Complies YES_____ NO_____

SHORELINE INLET

A 20 amp Super Auto Eject shoreline inlet with a GFI and interrupter shall be installed and located above compartment E. The Shoreline cover shall be RED.

Bidder Complies YES_____ NO_____

115 VOLT AC UTILITY POWER

115 volt AC utility power must meet KKK - A1822 - F. Utility power shall be as described in KKK - A1822 - F paragraph 3.7.8.1. Electrical 115 volt AC receptacles shall be as described in KKK - A1822 - F paragraph 3.7.8.2.

Bidder Complies YES_____ NO_____

TWO (2) 110 VAC OUTLETS

Two (2) 110VAC duplex outlets shall be installed in the patient compartment. One outlet shall be located in the action area, and one outlet shall be located in the right front cabinet.

Bidder Complies YES_____ NO_____

ADDITIONAL 110 VAC OUTLETS

Additional 110VAC duplex outlets shall be installed as follows:

- 1 - On curbside wall upper right corner, below cabt "R2".
- 1 - Right Front Cabinet "E2", wall #2, centered up high
- 1 - On bulkhead above S1 countertop
- 1 - On Action Area wall, at left, next to CPR seat.

Bidder Complies YES_____ NO_____

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ADDITIONAL 110 VAC OUTLET

An additional 110VAC T-Box with a stainless steel cover shall be installed behind the passenger seat next to the center console.

Bidder Complies YES _____ NO _____

BATTERY CHARGER

A Kussmaul 1200 Auto Charge battery charger shall be installed. It shall be a 40 amp charger/conditioner and include a remote indicator light which shall be located above the auto eject on the streetside exterior. The charger shall be located on the fixed shelf in the E Compartment.

Bidder Complies YES _____ NO _____

INVERTER/CHARGER

A Vanner 20-1050CULW inverter charger shall be installed. It shall power the 110VAC outlets. A switch shall be installed in the action area. The inverter shall be located on the fixed shelf of the E compartment.

Bidder Complies YES _____ NO _____

VOLTMETER

The vehicle shall include a Datcon analog voltmeter. It shall be located in the front center console next to the ammeter.

Bidder Complies YES _____ NO _____

LOW VOLTAGE ALARM

The electrical system shall be monitored by a system that provides both an audible and visual warning in case of low voltage in the ambulance. The alarm shall sound if the system voltage at the batteries drops below 11.8 Volts for a 12 Volt nominal system for more than 120 seconds.

Bidder Complies YES _____ NO _____

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SIREN SPEAKERS

Two (2) Cast SAD/P3806-11FSD-1 Siren speakers shall be mounted on the outer edges of the front bumpers.

Bidder Complies YES _____ NO _____

SIREN, PUBLIC ADDRESS SYSTEM

The ambulance shall be equipped with a Federal Signal electronic Q2B siren.

Bidder Complies YES _____ NO _____

AIR HORNS

A Buell 5440 air horn system shall be installed with two (2) horns. One horn shall be 10 inches long and one horn shall be 12 inches long. The compressor shall be mounted in compartment E. The trumpets shall be mounted thru the front bumper.

Bidder Complies YES _____ NO _____

SIREN/HORN SWITCHING

The siren shall be switched through the horn ring.

Bidder Complies YES _____ NO _____

AIR HORN SWITCHING

The air horn shall be switched with a foot switch located on the driver's side footboard, for left foot activation.

Bidder Complies YES _____ NO _____

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AIR HORN ACTIVATION

The air horns shall be activated by a separate momentary rocker switch in the cab console. Switch shall be located on the passenger side of the center console.

Bidder Complies YES_____ NO_____

ADDITIONAL SWITCHES

A 12VDC three position rocker switch shall be located in the Action Area and shall power the G and H Dome lights in the headliner.

Bidder Complies YES_____ NO_____

BACKUP ALARM

A backup alarm with a cut-off switch shall activate when the vehicle is shifted into reverse. The alarm shall automatically be reset and engage when the vehicle is placed in reverse again. The device must meet OSHA and SAE J994 requirements, and shall be rated (SAE) for Type C or B.

Bidder Complies YES_____ NO_____

VEHICLE EXTERIOR LIGHTING REQUIREMENTS

The basic exterior ambulance lighting shall comply with FMVSS standard number 108 and the requirement herein and include:

1. Amber front, rear directional signals, red brake and hazard warning lights.
2. Front and rear side marker lights.
3. Back up light(s).
4. Loading lights.
5. Clearance lights
6. Ambulance emergency lights.
7. Flood lights.
8. Spotlight(s)

Note: This agency is concerned for the safety of the patients, crew, and the public sharing the roadways. Therefore, this agency requires the primary manufacturer incorporate recessed DOT marker lights at the highest point of the vehicle. The marker lights shall be visible 360 degrees. In addition, each corner marker light shall be visible 180 degrees, also at each corner the marker light lens cover shall be tilted upward on a 45 degree angle and be visible above the horizontal

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plane for 360 degrees. These measures will insure the vehicle will be visible in low light conditions with the headlights in the "on" position. **Bolt on upper clearance lights or clearance lights within the support side extrusions will not be acceptable.** The rear side marker light shall be a minimum of two inches in diameter and shall function as a turn signal indicator as described in KKK - A1822 - F.

Bidder Complies YES_____ NO_____

EMERGENCY LIGHTING SYSTEM

The emergency lighting system must provide the vehicle with 360 degrees of visual warning ability. The system must display highly perceptible and attention getting signals that function in a modal system and convey the message in the primary mode to clear the right of way. In the secondary mode hazard vehicle stopped on right of way.

Bidder Complies YES_____ NO_____

The basic warning light system shall contain twelve (12) red, one clear and one amber light. These lights shall function in a dual mode system as shown in KKK - A - 1822F and meet the physical and photo metric requirements of paragraph 3.8.2.1 of that same document. The upper body warning lights shall be identical and mounted at the extreme upper corner areas of the ambulance body below the horizontal roof line, with the single clear light mounted between the two front facing red upper corner lights and the amber light centered above the rear doors. The two red grill lights shall be mounted per KKK - A - 1822F specifications without compromising the chassis manufacturer's air intake into the engine compartment.

Bidder Complies YES_____ NO_____

PHOTO METRIC AND PHYSICAL REQUIREMENTS

As specified by KKK - A - 1822F, all emergency light switches shall be labeled as specified in paragraph 3.7.11 of KKK - A - 1822F, and the primary/secondary mode switch(s) shall have an indicator light to show the driver which mode is activated. All warning light control switches, as described in section 4.3.1 of this document, shall be located in the driver control console and arranged to provide the warning signal modes and combinations as specified in Table 1 of KKK - A - 1822F, page 19. An independent testing laboratory will certify that the system meets these requirements. Test documents to be included with this proposal.

Bidder Complies YES_____ NO_____

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TOMAR REMOTE OPTICOM EMITTER

A TOMAR Model # 401-1228-PREHI/PRELO Mini Pre-Emption Power Supply shall be installed and wired to the Whelen 7x3 Strobe head in the center, upper position of the Module.

Bidder Complies YES _____ NO _____

TEN (10) WHELEN, M9R LED, RED, RED LENS WITH FLANGE

Ten (10) Whelen 90RR5FRR Red Super LED lights shall be located as follows.

- 4 - On front, of Module Configuration - R, C/R, R, Opti, R, C/R, R
- 4 - On sides of Module Standard Locations
- 2 - On Upper rear of Module Standard Locations

Flash Pattern - Action Flash 150, pri/sec

Bidder Complies YES _____ NO _____

TWO (2) WHELEN M9A LED, AMBER, AMBER LENS WITH FLANGE

Two (2) Whelen 90AA5FAR Amber Super LED lights shall be located as follows:

Located on the rear of the module to show through the upper portion of the rear windows.

Flash pattern - Action Flash 150 pri/sec

Bidder Complies YES _____ NO _____

TWO (2) WHELEN M9 RED/CLEAR SPLIT LED, CLEAR LENS WITH FLANGES

Two (2) Whelen 90RC5FCR Red/Clear Super LED light with a clear lens shall be located as follows:

Location - on front of module, Configuration R/C, R, C, Opti, C, R, R/C

Flash Pattern - Action Flash 150 Top/Bottom, pri/sec.

Bidder Complies YES _____ NO _____

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THREE (3) WHELEN 5L TIR6, RED LED, RED LENS WITH FLANGES

Three (3) Whelen 50R03ZRR Red Super LED lights shall be provided. The lens shall be Red and the LED lights shall be Red. They shall be located on the lower inside panel of each module entry door. Lights to flash when the entry door is opened and the vehicle's warning lights are activated.

Flash Pattern - Triple Flash

Bidder Complies YES _____ NO _____

FOUR (4) WHELEN 5L, LIN6, RED LED, RED LENS, 50R02ZRR WITH FLANGES

Four (4) Whelen 50R02ZRR Red Super LED lights shall be installed on the front grill. The lens shall be Red and the LED lights shall be Red. They shall be synchronized to flash in an "X" pattern. Flash Pattern - Double 75 Fpm.

Bidder Complies YES _____ NO _____

WHELEN 7S STROBE, CLEAR, LINEAR WITH FLANGE.

A Whelen 702000CB Clear linear strobe light shall be installed on the front center of the module. It shall operate the remote opticom emitter.

Bidder Complies YES _____ NO _____

WHELEN M7R RED LED, RED LENS WITH FLANGE

A Whelen 70R02FRR Red Super LED light shall be installed on the front center of the module, below the clear 700 series strobe (Opticom). The lens shall be red and the LED light shall be red.

Flash pattern - Action Flash 150. Pri/sec

Bidder Complies YES _____ NO _____

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WHELEN M7A LED, AMBER, AMBER LENS WITH FLANGE

A Whelen 70A02FAR Amber Super LED light shall be installed on the rear of the module. The lens shall be Amber and the LED lights shall be Amber. It shall be centered above the rear door.

Flash Pattern - Action Flash 150, pri/sec

Bidder Complies YES _____ NO _____

TWO (2) WHELEN M7D LED, SPLIT RED/CLEAR, CLEAR LENS WITH FLANGES.

Two (2) Whelen 70RC6FCR Red/Clear Super LED lights shall be installed, one above each rear wheelwell. The lens shall be Clear and the LED lights shall be Red/Clear.

Flash Pattern - Action Flash 150, Left/Right, pri/sec

Bidder Complies YES _____ NO _____

TWO (2) WHELEN LINZ6 LED, RED, RED LENS WITH FLANGES

Two (2) Whelen, LINZ6R RED, Super LED Red light shall be installed on each front fender. They shall operate as intersection lights.

Bidder Complies YES _____ NO _____

CLEARANCE LIGHTS

The primary manufacturer shall incorporate DOT marker lights at the highest point of the vehicle. The marker lights shall be visible 360 degrees. In addition, each corner marker light shall be recessed and visible 180 degrees. Also at each corner, the marker light lens cover shall be tilted upward on a 45 degree angle to be visible above the horizontal plane for 360 degrees. These measures will insure the vehicle will be visible in low light conditions with the headlights in the "on" position. Bolt on upper clearance lights or clearance lights within the support corner extrusions will not be acceptable. Amber lenses shall be installed on the front corners and Red lenses shall be installed on the rear corners. The light shall be LED and flash at high intensity when activated through a separate switch located on the cab console.

Bidder Complies YES _____ NO _____

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MARKER LIGHTS

Two (2) amber LED marker lights shall be installed in the rear bumper. One shall be installed on the driver's side and one installed on the passenger side of the rear bumper pontoons.

Bidder Complies YES_____ NO_____

ADDITIONAL REAR MARKER LIGHTS

An additional amber LED marker light shall be installed on each side of the module. They shall be wired to flash with the turn signals.

Bidder Complies YES_____ NO_____

MARKER LIGHTS

Two (2) red LED marker lights shall be installed in the rear bumper. One shall be installed on the driver's side and one installed on the passenger side of the rear bumper pontoons.

Bidder Complies YES_____ NO_____

EXTERIOR FLOOD LIGHTS

Four (4) Whelen M9LZC Clear LED lights shall be installed. Loading lights shall not be less than seventy-five inches above the ground and shall not be obstructed by open doors. Two (2) floodlights shall be located on each side of the vehicle and be firmly fastened to the body surfaces below the roof line. The side flood lights shall be controlled from the cab console and be independently switched.

Bidder Complies YES_____ NO_____

WHELEN, MODEL #70COELZR, LED LOAD LIGHTS ON REAR ILOS

Two (2) Whelen Model M7LZC Clear LED lights shall be installed on the rear of the module. They shall act as load lights and shall activate when the rear doors are opened.

Bidder Complies YES_____ NO_____

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SCENE LIGHT ACTIVATION

The curbside scene lights shall be activated when the curbside door is opened.

Bidder Complies YES _____ NO _____

ADDITIONAL REAR SCENE LIGHTS ACTIVATION

The rear scene lights on both the curbside and street side shall activate when the vehicle is placed in the reverse gear.

Bidder Complies YES _____ NO _____

LICENSE TAG LIGHT

There shall be two (2) license tag lights installed on either side of the rear license plate.

Bidder Complies YES _____ NO _____

TAILLIGHT PACKAGE

There shall be a Whelen taillight package installed on the rear of the vehicle. The stop/tail lights shall be LED with a minimum of 32 square inches of lighted surface area. The turn signals shall be a 5" LED arrow shaped design. The backup lights shall be Halogen. All three lights per side shall be in a common housing. A waterproof connection to the OEM tail light harness is required.

The brake lights shall alert flash before the steady burn.

The turn arrows shall flash in a sequential arrow pattern.

Bidder Complies YES _____ NO _____

MODULE HEADLINER

The module headliner shall be manufactured out of expanded PVC material. The liner shall be white and installed to allow flush mounting of the interior lighting.

Bidder Complies YES _____ NO _____

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VEHICLE INTERIOR LIGHTING

The basic interior compartment shall be provided with seven (7) overhead dual intensity LED lights. The lights shall be Whelen 80W00EZR. There shall be four lights located over the primary patient stretcher and three over the squad bench. These lights shall be mounted into the patient compartment head liner and shall not protrude into the patient compartment. The overhead shall have two levels of intensity, a high and low setting. The attendant shall be able to control the level of light via switches in the action area control panel. The dual lighting shall work together or may be separately selected from side to side. The four lights over the primary patient shall illuminate on the low setting when the side modular or rear modular doors are open. Certification shall be provided by an independent testing laboratory with this proposal.

Bidder Complies YES_____ NO_____

VEHICLE INTERIOR LIGHTING (ADDITIONAL)

There shall be three (3) additional Whelen 80W00EZR LED lights installed as follows:

(1) on Curbside, position #9, switched with right domes

(2) in liner locations "G" & "H", on separate switch, "DOME"

Bidder Complies YES_____ NO_____

STEP WELL LIGHT

A 2" LED step well light shall be provided in the step well area of the modular curbside door and shall be activated upon opening the curbside or rear modular doors.

Bidder Complies YES_____ NO_____

ACTION AREA LIGHT

A twelve volt direct current light with integral switch shall be provided in the attendant action area. The light shall be a 3-Bulb Xantech, 12 inch dual intensity light.

Bidder Complies YES_____ NO_____

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CUSTOM SWITCHING, INTERIOR DOME LIGHTS ILOS

Provide Custom Switching for Interior Dome lights as follows: There are a total of ten (10) Dome lights in this configuration. Customer requests six (6) lights to activate when the doors are opened and timer is activated. Lights in positions 1,4,8,9,G,H, to activate as specified.

Bidder Complies YES_____ NO_____

SWITCH ADDITIONAL, DOME LIGHTS

Switch Instructions: Install three (3) Switches in the A/A to control Dome Lights as follows:

- 2 Rear, 2 Front, and Center Streetside to be labeled "Dome Lights - Total of 5 Lights
- 3 lights over bench to be labeled "Bench Dome"
- 2 remaining lights to be labeled "Cot Dome"

Bidder Complies YES_____ NO_____

HANDHELD SPOTLIGHT

A handheld spotlight shall be provided with a minimum of four hundred thousand candle power lamp. The spotlight shall be a Blue Eye. It shall be in a corrosion proof housing with a protected momentary switch to prevent accidental activation. A minimum eight feet of heavy duty coiled cord will be supplied and it shall be hard wired in the cab area and accessible to the driver and passenger.

Bidder Complies YES_____ NO_____

LED HI-BRITE FLEX LIGHTING, EXTERIOR COMPARTMENTS

LED Hi-Brite Flex lighting shall be installed near the door jambs, in all exterior compartments. This flexible LED lighting shall be located on both vertical edges of each compartment. It shall also be located on the top, horizontal section of each compartment.

Bidder Complies YES_____ NO_____

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FLEXSHAFT LITTLE LITE

A Flexshaft Little Lite LF12ERR shall be installed on the passenger side of the front console. The light shall have a 12 inch long arm.

Bidder Complies YES _____ NO _____

TIMER

An Intermatic 15 minute Timer shall be installed on the curbside wall, at the head of the squadbench. The timer shall be wired constant hot and shall power the two rear domes, two front domes, and 2 domes in positions G and H. Domes shall activate in high intensity mode.

Bidder Complies YES _____ NO _____

ELECTRICAL TROUBLESHOOTING LIGHT

A small light with a switch shall be installed in the circuit board area for troubleshooting. The light shall be wired battery hot.

Bidder Complies YES _____ NO _____

SUCTION PUMP

A suction pump shall be installed that shall comply with Federal Specifications KKK-1822F.

Bidder Complies YES _____ NO _____

ACOUSTIC AND CLIMATE INSULATION

The primary manufacturer shall supply an insulating material that is non-flammable with a Class A, Class 1 fire rating. It shall be certified to meet the smoke and flammability requirements of FMVSS 302. The exposed walls of the exterior compartments and wheel wells that intrude into the interior of the modular shall be covered with reflective insulating material with a value of R-14. The side, front, rear walls as well as the ceiling shall be insulated with three inch thick temperature rated un-faced fiberglass with a value of R-11. Fiberglass has been proven to provide excellent sound and thermal barrier over other materials. Fiberglass insulation is safe and widely used in the automotive and construction industry.

Bidder Complies YES _____ NO _____

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ACOUSTIC AND CLIMATE INSULATION - SEVERE WEATHER PACKAGE

The primary manufacturer shall supply an insulating material that is non-flammable with a Class A, Class 1 fire rating. It shall be certified to meet the smoke and flammability requirements of FMVSS 302. The exposed walls of the exterior compartments and wheel wells that intrude into the interior of the modular shall be covered with reflective insulating material with a value of R-14. The side, front, rear, walls as well as the ceiling shall be insulated with a one inch block foam beneath a full covering of reflective insulation. In addition, one inch block foam insulation shall be installed under the aluminum floor moisture barrier and between the floor structures. The insulation shall be protected from road debris by an additional aluminum moisture barrier under the insulation.

Bidder Complies YES _____ NO _____

OVERHEAD GRABRAIL 59 INCH, OVER SQUADBENCH

An overhead grabrail shall be installed in the patient compartment head liner. The grabrail shall be yellow powder coated stainless steel and handicapped style with rounded ends. The grabrail shall be a minimum of 59 inches long and shall be mounted over the edge of the squadbench.

Bidder Complies YES _____ NO _____

OVERHEAD GRABRAIL, 117 INCH

An additional overhead grabrail shall be installed in the patient compartment head liner. The grabrail shall be yellow powder coated stainless steel and handicapped style with rounded ends. The grabrail shall be a minimum of 117 inches long and shall be mounted in a recess in the liner.

Bidder Complies YES _____ NO _____

ENTRY DOOR GRAB HANDLES

On each entry door there shall be an L-shaped grab handle. The vertical portion of the L shall be close to the hinge of the door and run the full length of the upper window in the door. The horizontal portion of the L shall be located just under the upper window. The grab handles shall be 1 inch diameter brushed stainless steel and handicapped style.

Bidder Complies YES _____ NO _____

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ZICO MODEL QR-MV UNIVERSAL O2 CYLINDER BRACKET W/ STRAPS

A Zico Model QR-MV Universal O2 Cylinder Bracket shall be supplied in the F Compartment. It shall be mounted to two (2) pieces of Full length Unistrut on the rear of the compartment wall, to the right of the vertical divider. The unistrut mounting shall allow of the bracket to be adjusted to accommodate various size oxygen bottles.

Bidder Complies YES_____ NO_____

OXYGEN BRACKET UNISTRUT

The Zico Model QR-MV Universal O2 Cylinder Bracket shall be installed on two lengths of unistrut to allow for adjustments in bottle size. Unistrut shall be installed on the rear wall of the "F" Compartment.

Bidder Complies YES_____ NO_____

OXYGEN, MAIN SUPPLY AND INSTALLATION

The ambulance shall have a hospital type piped oxygen system capable of storing and supplying three thousand liters of medical oxygen. The cylinder controls shall be accessible from inside the patient compartment. The pressure gauge shall be visible from either the attendant's seat or from the squad bench. The oxygen shall be piped to two (2) self-sealing Ohio adaptable oxygen outlets located in the action area, one located in the liner at the head of the cot, and one located on the curbside wall at the head of the squad bench. There shall be an electric oxygen switch in the action area that shall engage a solenoid to open and close a valve on the oxygen tank. It shall also include a manual bypass knob in the action area in the event of an electric oxygen malfunction. The oxygen system will incorporate electrically conducted oxygen hose with a working pressure of one hundred and fifty pounds per square inch. All oxygen hose and outlets will use machine crimped brass ferrules and high pressure connectors. The entire oxygen delivery system will be pressured tested with a minimum of one hundred and fifty pounds per square inch of pressure of nitrogen gas for a period of four hours. The testing documentation will be delivered with the vehicle.

A vacuum port shall also be located in the action area to supply the vacuum to the suction container.

ohio style
electric switch w/bypass in action area
(2) oxygen outlets in action area
(1) vacuum port in action area

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- (1) oxygen outlet in liner at head of cot
- (1) oxygen outlet cs wall at head of squad bench

(1) Vac Port in recess in face of Action Area

Bidder Complies YES_____ NO_____

ONE (1) REGULATOR,LARGE CYLINDER,PRESET 50PSI

One (1) regulator for the On Board Oxygen System shall be supplied.

Bidder Complies YES_____ NO_____

SUCTION ASPIRATOR

The ambulance shall be equipped with an on-board vacuum aspirator. The unit shall be recessed into the lower wall of the Action area, below the cabinet, under the countertop to collect any bio fluids that may be spilled. The unit shall be an SSCOR 22000 with a stainless steel container holder. The container shall be disposable and the regulator panel shall be located in the action area panel. The vacuum pump shall be installed via a twelve volt direct current system. The on/off switch shall be located in the attendant's console.

Bidder Complies YES_____ NO_____

COT MOUNTING HARDWARE

The bidder shall provide and install a STRYKER Model 6390 POWER LOAD COT LOADING SYSTEM

Power-LOAD Cot Fastening System (Model 6390) Bid Specification
Independent Qualification

The system shall have the following independent certifications:

- IPX6
- IEC 60601-1 and IEC 60601-1-2
- KKK-A-1822

Crash Standards

- The system shall meet the following dynamic crash test standards:
- EN 1789:2007 *Medical vehicles and their equipment – Road ambulances I*
- AS/NZS 4535:1999 *Ambulance restraint systems 2*

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Ease of Use

- The system shall be capable of lifting patients weighing up to 700lbs.
 - The system shall support the patient and cot throughout the loading and unloading process.
 - The system shall provide a linear guide for cot through the loading and unloading process.
 - The system shall be equipped with LED indicators which communicate system status to the operator.
 - The system shall have wireless communication capabilities.
 - The system shall provide a method of inductive charging for associated batteries without the use of cables or connectors.
 - The system shall provide a method of operation for powered ambulance cots and non-powered ambulance cots.
- The system shall provide a method of operation in the event that the system loses power or experiences an error

Bidder Complies YES _____ NO _____

IV HOLDERS, CAST FOLD DOWN STYLE

There shall be Three (3) Cast fold down style recessed IV holders. Two shall be located on the curbside at the head and foot of the cot, and two shall be located on the street side at the head and the foot of the cot.

- 1 - Over Knee area above Cot (IV1-SS)
- 1 - Over Knee area above Squadbench (IV1-CS)
- 1 - Over Chest Area above Squadbench (IV2-CS)

Bidder Complies YES _____ NO _____

SHARPS AND WASTE A BAR, HEAD OF SQUADBENCH

A stainless steel bar installed at the head of the squadbench shall hold the sharps and waste container.

Bidder Complies YES _____ NO _____

ALUMINUM PANELS WITH UNISTRUT FOR SCBA BRACKETS

Two (2) Aluminum panels shall be supplied and installed into the Left Rear "D" Compartment to provide a mounting location for SCBA Brackets. Panels shall be installed at a 45 degree angle, in each rear corner of the compartment, below the upper fixed shelf.

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SCBA Brackets to be supplied and installed by customer after delivery of unit.

Bidder Complies YES_____ NO_____

FERNO # 559 TURNOUT GEAR HOOKS, INSTALLED, D COMPARTMENT

Two (2) FERNO MODEL # 559 Turnout Gear Hooks shall be supplied and installed on the rear wall of the D Compartment. They shall be located on the rear wall, below the fixed shelf, and between the SCBA brackets. They shall be mounted high enough to allow for a bunker coat to hang, and provide enough space to store crewmembers' bunker boots directly below.

Bidder Complies YES_____ NO_____

BLACK MATTING EXTERIOR COMPARTMENTS.

A black ribbed rubber mat shall be installed on the floors and shelves of all the exterior compartments. The mat shall be a minimum of 0.125 inches in thickness.

Bidder Complies YES_____ NO_____

BLACK MATTING, INTERIOR WALLS "F" COMPARTMENT

A black ribbed rubber matting shall be installed on the interior walls of the "F" compartment to protect the backboards. Matting to extend full height on all three walls.

Bidder Complies YES_____ NO_____

OXYGEN WRENCH

An oxygen wrench shall be located in the oxygen compartment. The wrench shall be tethered so that it will not become lost.

Bidder Complies YES_____ NO_____

SECURING EQUIPMENT

An adjustable strap with a quick clip shall be installed in the following locations to keep the equipment secure during transit.

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(1) In F Compt - Lower area - from Wall 1 to Divider, centered vertically to hold Stair Chair.

(1) In B2 Compt from wall 1 to center divider, centered vertically to hold backboards.

Bidder Complies YES_____ NO_____

REFLECTORS, 3 INCH, RED, INTERIOR MODULE DOORS

Three inch red reflectors shall be installed on the lower area of each Interior module entry door.

Bidder Complies YES_____ NO_____

INTERIOR SURFACES

All vertical edges of cabinets shall be of a one inch radius finish design to free the interior of the patient's compartment of all sharp edges or projections. A solid surface Action Area tray shall be supplied. The Action Area top shall be easily customized, durable, and long lasting. The surface shall be constructed of Corian, a product developed by Dupont. The Corian surface is hygienic, with no visible pores, and is seamless to facilitate cleaning and contain any fluids or biological waste during transit.

NOTE: COUNTERTOPS TO BE STAINLESS STEEL ILO CORIAN.

Bidder Complies YES_____ NO_____

RU-10-00002 INTERIOR STOWAGE ACCOMMODATIONS

The interior of the patient compartment shall provide but not be limited to a minimum volume of thirty cubic feet of enclosed cabinets. Interior cabinet, shelf and compartment space shall be conveniently located for medical supplies, devices or other equipment. All interior cabinets shall be manufactured from two pieces of pre-painted white .050 aluminum that is riveted together to aid in structural integrity of this compartment. The compartment is fastened to the front composite panel utilizing rivets and adhesive to insure structural integrity. The cabinets shall be insulated to aid in sound and vibrations dampening qualities. All adjustable shelving shall be constructed of .050 white pre-painted aluminum and be held in place with aluminum tracking that is mounted to the compartment walls with screws. The front and rear lip shall be one inch high and the sides shall be one inch downward formed to provide added strength. All lip edges shall be covered by color coordinated push on plastic protective edging. The equipment and

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supplies necessary for airway management shall be within easy reach of the medic at the head of the stretcher. Interior cabinet dimensions are as described.

Bidder Complies YES _____ NO _____

INTERIOR SURFACES

The cabinets shall be a gray gloss color.

Bidder Complies YES _____ NO _____

FLOOR, NON-WOOD

A top floor of one half inch thermolite board shall be placed over the moisture shield. The thermolite board shall be nonabsorbent, resistant to contamination, will not rot, lightweight, will not delaminate, and has excellent structural capability. The thermolite board shall be securely anchored to the floor sub structure with one quarter inch UNF machine by two and one half inch screws. The flooring shall extend the full length and width of the patient compartment including space under the cabinets.

Bidder Complies YES _____ NO _____

FLOOR COVERINGS

The patient compartment floor covering shall be a heavy duty material that is impervious to fluids. The flooring shall be glued to the plywood floor using an adhesive compound. The flooring shall be Lonplate II and the color Gunpowder Gray #424. There shall be no adhesive voids between the flooring and the plywood. The floor shall be designed to roll up the side of the street side and bulk head cabinets and squad bench.

Bidder Complies YES _____ NO _____

ATTENDANT SEATING, EVS 1880 CB WITH 3 POINT SEAT BELT

Seating for the attendant shall consist of a contoured high back padded bucket seat. The seat covering shall be an easy clean vinyl material and be impervious to blood borne pathogens and other contaminants. Therefore, cloth seats or seats with welting seams or visible stitching will not be accepted. The vinyl shall be Gunmetal. Seating must meet OSHA regulation 1910.1030. The seat belt must be certified to KKK - A1822 - F specification and to FMVSS and shall be an

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integrated three-point harness. An integrated child safety seat shall be incorporated in the seat. Installation shall comply with FMVSS. The seat shall be mounted on a metal box base.

Bidder Complies YES _____ NO _____

UPHOLSTERY

The finish of the entire patient's compartment, including storage cabinets and equipment, shall be impervious to soap and water, disinfectants, bio fluids, mildew and shall be fire resistant per FMVSS 302. Upholstered cushions shall be a minimum of thirty two ounce nylon reinforced commercial vinyl material. Squad bench cushions and attendant seat and backrest cushions shall be fabricated in such a manner to eliminate exposed welting. Cushions with welting or beaded seams shall not be accepted due to the risk of bio fluid penetration. Describe below your method of cushion construction. The color of the upholstery shall be gunmetal gray.

Bidder Complies YES _____ NO _____

INTERIOR OXYGEN VIEWING DOOR

A Lexan door shall be installed on the oxygen viewing opening.

Bidder Complies YES _____ NO _____

RIGHT FRONT CABINET

The right front cabinet shall house the Heating and Air Conditioning unit which shall be located in the upper portion of the cabinet.

Bidder Complies YES _____ NO _____

RIGHT FRONT CABINET

Right Front Cabinet - E1 to have two (2) hinged aluminum doors w/ latches. E2 area to be open. Opening to be trimmed in aluminum and have four (4) 2" straps installed vertically in opening, equally spaced. Strap to be affixed to top and bottom of E2 opening with buckle at mid height. Shelving and cabinet bottom to be lined with black ribbed rubber.

Bidder Complies YES _____ NO _____

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CABINET LATCHES

Plunger roller latches shall be installed on the right front cabinet doors to keep them secure during transit as follows:

- (2) on Right Front E1 Cabinet(s)
- (1) on S1 Cabinet under bulkhead
- (2) on S2 Cabinet under bulkhead
- (1) on Aluminum Broom Closet door

Bidder Complies YES _____ NO _____

SQUAD BENCH CABINET

The squad bench cabinet shall be located on the curbside of the patient compartment over the rear wheel well. The squad bench shall be a minimum of 72 inches long and be constructed of three quarter inch birch. The lid shall be attached to the squad bench assembly via a stainless steel piano hinge the entire length of the bench. The hinge shall attach with fasteners in a vertical position through the face of the lid and not through the edge of the cabinet and lid. The squad bench shall be equipped with a locking device to automatically secure the lid upon closing. The squad bench shall be furnished with three sets of lap safety belts for seated occupants and for the retention of a cot when positioned on the squad bench. The anchorages for the side facing seat belt assembly shall withstand a minimum of 2,500 pounds of force when tested in accordance with FMVSS 210-S5.1. A full length cushion shall be installed on the squad bench lid and on the wall as a back rest. The interior of the squad bench shall provide storage.

Bidder Complies YES _____ NO _____

SQUAD BENCH LID

The squad bench shall have a full length lid that shall be manufactured from three quarter inch birch. The lid shall be split into two fifty percent sections to allow access to each end of the squad bench separately. The lids shall be covered in color coordinating high pressure laminate.

Bidder Complies YES _____ NO _____

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SQUADBENCH BACKREST, SPLIT, W/ PARAMEDIC DESIGNS # PD1 EQUIPMENT ORGANIZER

Split Squadbench backrest into two separate pads. Allow minimum 10" space in between to accommodate a Paramedic Designs # PD1 Equipment Organizer.

Bidder Complies YES _____ NO _____

SQUAD BENCH LATCH

The squad bench lid shall be secured with a paddle handle that latches automatically when the squad bench lid is closed. The latch shall hold the lid secure during transit and shall not open unless the handle is lifted.

Bidder Complies YES _____ NO _____

SQUAD BENCH HOLD OPENS

When the squad bench lid is lifted, it shall be held in place by a 60 pound pneumatic hold open.

Bidder Complies YES _____ NO _____

HOSELINE BRAND ENVIROMENTAL DRAWER

Bidder shall provide and Install Hoseline Brand Environmental Drawer under Squadbench. Drawer to pull out into aisle and be located at front of Squadbench. Mount Control Panel for E-Drawer on Action area wall.

Bidder Complies YES _____ NO _____

CURBSIDE SPLINT CABINET

A cabinet shall be located above the squad bench near the headliner. The cabinet shall be 7 inches deep, 11.25 inches high and run the length from the curbside door to the rear wall cabinet. The cabinet shall be separated into two equal cabinets with gray sliding Lexan.

Bidder Complies YES _____ NO _____

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CPR SIDE SEAT

A CPR side seat shall be located just above the rear street side wheel well. Seamless upholstered cushions shall be located on the bottom and rear wall of the seat area. Cushions shall also be located above the head area for safety.

Bidder Complies YES_____ NO_____

CPR SEAT STORAGE

A small storage area shall be located under the CPR seat and just above the wheel well. The storage shall be accessed by lifting a lid which holds the bottom seat cushion.

Bidder Complies YES_____ NO_____

CPR SIDE SEAT MOVED 12" REARWARD

A CPR side seat with 3 point restraint system shall be located just above the rear street side wheel well. Seamless upholstered cushions shall be located on the bottom and rear wall of the seat area. Cushions shall also be located above the head area for safety.

NOTE: Move CPR Seat 12" rearward, Reduce telemetry area countertop. Reduce "J" Cabinet to the rear of CPR seat and lengthen Action Area countertop and Cabinets L & P

Bidder Complies YES_____ NO_____

STREETSIDE REAR UPPER CABINET

Cabinet "J" shall be located on the street side of the patient compartment. It shall be the rear upper cabinet and shall be 20.25 inches high, 36.00 inches wide, and 17.25 inches deep.

Bidder Complies YES_____ NO_____

STREETSIDE FORWARD UPPER CABINET

Cabinet "L" shall be located on the street side of the patient compartment. It shall be the forward upper cabinet just above the Action Area. The cabinet shall be 20.25 inches high, 53.00 inches wide and 15.25 inches deep.

Bidder Complies YES_____ NO_____

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COMPARTMENT "P" UNDER ACTION AREA COUNTERTOP

Add interior cabinet with Gray Lexan Sliders to area under action area. Cabinet shall be a minimum of 10.00 inches high, 49.00 inches wide, and 8.00 inches deep. Gray Lexan Sliding Doors. This will create a dogleg in compt E.

Bidder Complies YES _____ NO _____

STORAGE COMPARTMENTS AND CABINET DESIGN

All storage cabinets shall be easily opened but shall not come open during transit. The cabinets shall be accessible through a variety of door options.

When specified to be Lexan, the doors shall be reciprocating horizontal sliding Lexan doors. The door shall be transparent to permit viewing of supplies and the door shall open with a grab anywhere device. The handle shall run the full vertical length of the Lexan. The Lexan shall be three sixteenths of an inch in thickness and shall be enclosed in an extruded aluminum frame. The frame shall cover the entire perimeter of the cabinet opening and the Lexan set within the frame on a track lined with a material to prevent the Lexan from sliding open and shut during transport.

Bidder Complies YES _____ NO _____

RESTOCKING FEATURE, FOUR (4) CABINETS J, L, R1, R2

The restocking feature on these cabinet shall allow for the aluminum plexiglass frame to lift up for easy restocking of the cabinet. The frame shall lift open hinging at the top and be kept open by two (2) 30 pound pneumatic pistons. The pistons shall keep the frame in the open position to allow for restocking. The frame shall latch when in the closed position with a positive mechanical latch. Installed on the following cabinets: J, L1/L2, R1, R2

Bidder Complies YES _____ NO _____

TELEMETRY TRAY COUNTERTOP, STAINLESS STEEL ILOS

The Telemetry Area countertop shall be stainless steel ILO Corian.

Bidder Complies YES _____ NO _____

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ACTION AREA COUNTERTOP - STAINLESS STEEL ILOS

The Action Area countertop shall be stainless steel ILO Corian

Bidder Complies YES_____ NO_____

ACTION AREA TRAY

The top of the Action Area cabinet shall provide a clean work area. The countertop shall be one piece with a one inch lip around the tray. The tray shall be manufactured out of Stainless Steel. NO EXCEPTION. This tray is mandatory to facilitate cleaning and contain any fluids or biological waste during transit.

Bidder Complies YES_____ NO_____

ACTION AREA CABINET

The Action Area shall provide for easy access to switches located in the action from the attendant seat, squad bench and CPR seat, if applicable. The switches shall be located in an angled cabinet on the back wall of the Action Area.

Bidder Complies YES_____ NO_____

ACTION AREA SWITCH PANEL CABINET

Provide a cabinet on the left hand end of the switch panel that is same height and depth of switch panel cabinet. Install a hinged down laminate covered door with locking southco latch on this cabinet.

Bidder Complies YES_____ NO_____

CABINET "J" DOOR

The door to cabinet "J" shall be a Lexan slider. The Lexan shall be gray.

Bidder Complies YES_____ NO_____

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CABINET “L” DOOR

The door to cabinet “L” shall be a Lexan slider, The Lexan shall be gray

Bidder Complies YES_____ NO_____

CABINET “P” DOOR

The door to cabinet “P” shall be a Lexan slider. The Lexan shall be gray.

STANDARD MANDATORY MISCELLANEOUS EQUIPMENT

Unless otherwise precluded elsewhere in this specification, the vehicle shall be equipped with the following:

*One five pound fire extinguisher that is ABC dry chemical multipurpose with a quick release bracket.

*No smoking oxygen equipment signs conspicuously placed in the cab and patient compartment.

*A back-up alarm, audible warning device activated when the vehicle is shifted into or moving in reverse.

In addition, the following items shall be shipped loose in the vehicle:

SPARE TIRE MOUNTING

The spare tire mounting brackets shall be shipped loose with the vehicle.

Bidder Complies YES_____ NO_____

TWO (2) SHARPS CONTAINERS, # 8513, WITH #8516H BRACKETS, SHIPPED LOOSE

Provide Two (2)- # 8513-1 Sharps Containers w/ # 8516-1H Wall brackets. To be shipped loose with unit.

Bidder Complies YES_____ NO_____

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FIRE EXTINGUISHER, ONE (1) 5 LB ABC, IATS, SHIPPED LOOSE

Bidder shall supply one (1) additional 5 pound ABC Extinguisher with mounting bracket. To be shipped loose with the vehicle.

Bidder Complies YES _____ NO _____

SPARE TIRE

The OEM spare tire shall be shipped with the vehicle.

Bidder Complies YES _____ NO _____

QUALITY ASSURANCE PROVISIONS

Defective components shall not be furnished. Parts, equipment, and assemblies, which have been repaired or modified to overcome deficiencies shall not be furnished without the written approval of the purchaser. Construction methods utilized shall be in accordance with industry standards. Component parts and units shall be manufactured to definite standard dimensions with proper fits, clearances and uniformity. The general appearance of the vehicle shall not show any evidence of poor workmanship.

At the time of delivery, the manufacturer's representative shall explain the use and operation of the new vehicle(s) and provide an owner's manual for the complete vehicle. The manual shall contain useful information on routine maintenance and troubleshooting. All warranty registration materials shall be completed and explained at the time of delivery. The manufacturer shall arrange for over the road delivery under the finished vehicle(s) own power. The vehicle(s) shall be delivered clean and free of road debris with at least fifty percent fuel on board.

The bidder shall be responsible for the performance and test requirements required herein. This agency reserves the right to perform any of the inspections and tests set forth in this specifications where such inspections are deemed necessary to assure conformation of specification. The primary manufacturer shall conform to this agency's representatives with instruments and all such assistance as may be required.

Bidder Complies YES _____ NO _____

The primary manufacturer shall be ISO 9001:2000 certified.

Bidder Complies YES _____ NO _____

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TESTS

The primary manufacturer is obligated to prove that the vehicle, ambulance components and equipment provided meet the requirements of this specification and are compliant to Federal Ambulance Specification KKK - A – 1822F and any amendments in effect at the time of this bid. Copies shall be provided with this of the test documents and a letter from an independent testing laboratory that has performed the tests certifying that the following tests have been conducted and passed. Test documents or any source other than described above shall not be accepted. Failure to comply with the requirement shall be considered as non-responsive and will not be accepted. The certified tests are as follows and conform to the requirements of this specification and Federal Ambulance Specification KKK - A – 1822F.

- A. Vehicle Physical Dimensions (3.4.11 through 3.4.11.6)
- B. Patient Compartment Interior Dimensions (3.10.4)
- C. Stepwell, Bumpers and Facilitation (3.11 through 3.10.11, 3.10.3 through 3.10.16 and 3.9.9)
- D. Storage Compartment and Facilitation (3.11 through 3.11.2.1,3.11.4 and 3.11.6)
- E. Ambulance Body and Patient Area (3.10.1 through 3.10.3, 3.10.6 through 3.10.8, 3.10.20 through 3.10.11, 3.10.3 through 3.10.16 and 3.9.9)
- F. Vehicle Weight Distribution (4.4.3 and 3.5 through 3.5.6 and 3.19)
- G. Water Spray Test (4.4.5)
- H. 115 VAC Utility Power (3.7.8 through 3.7.8.3)
- I. Electrical System Components (3.7.8 through 3.7.8.3, 3.7 through 3.7.5, 3.7.7 through 3.7.7.4, 3.7.9 through 3.7.11, 3.8.1, 3.8.4 and 3.8.50)
- J. Patient compartment Illumination (3.8.5.1)
- K. Electrical Generating System (3.7.6 through 3.7.6.3 and AMD 005)
- L. Warning Lights and Siren System (3.8.2 through 3.8.4 and 3.14.6)
- M. Door Latches, Hinges and Hardware (3.10.9)
- N. Static Load Test (3.10.5 and AMD 001)

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- O. Patient Compartment Interior Surfaces (3.10.17 and FMVSS 302)
- P. Oxygen System Test (4.4.6, 3.12.1 and 3.12.1.1)
- Q. Oxygen Cylinder Restraint Test (3.11.3 and AMD 003)
- R. Litter Fastener and Anchorage (3.11.7 and AMD 003)
- S. Suction Aspirator System (3.12.3 and 3.12.4)
- T. Heating Criteria (3.4.2, 3.7.9 through 3.7.11, 3.6.3.2, 3.13.1 through 3.13.7)
- U. Air Conditioning Criteria (3.4.2, 3.7.9 through 3.7.11, 3.6.3.2, 3.13.7, 3.6.4.5.1 through 3.6.4.5.1)
- V. Ventilation Criteria (3.13.6)
- W. Patient Compartment Sound Level (3.13.8 and AMD 006)
- X. Patient Color and Markings (3.16 through 3.16.2 and 3.16.4)
- Y. Manuals and Handbooks (3.20 and 6.8)
- Z. Seat Belt Test (3.11.6)
- AA. Electromagnetic Radiation and Suppression (3.7.12)
- BB. Standard Miscellaneous Equipment (3.15.2)
- CC. Miscellaneous Equipment (3.7.5 and 3.9.5)

Bidder Complies YES _____ NO _____

EXCEPTIONS

Exceptions shall be submitted as set forth in section A1.1.2 of this document. This agency will accept proposals from any business entity proclaiming to manufacturer vehicle(s) to conform with this specification. Further, this agency will not deny the right of any manufacturer to present its product. However, it should be noted, that any primary manufacturer that does not take exceptions shall produce the vehicle exactly as described. Failure to produce said vehicle may be grounds for this agency to pursue a resolution of damages through civil and criminal court.

Bidder Complies YES _____ NO _____