

**SPECIFICATIONS
FOR THE PURCHASE
OF AN AMBULANCE
FOR THE
EDGEWOOD FIRE/EMS**

ACCEPTING SOLICITATION OF SEALED BIDS AND PROPOSALS

All bids, and proposals in response to this solicitation, and all sales as a consequence thereof, shall be deemed to include, by implication, all of the warranties indicated in K.R.S. 355.2-213 through, and including K.R.S. 355.2-318.

This is not a purchase order, it is only a solicitation of sealed bids, and proposals, and no bid or proposal in response to this solicitation shall be considered by the City of Edgewood unless it complies with all of the provisions hereof, and in any event, the City of Edgewood hereby reserves the right to reject any, and all bids, and proposals in response hereto.

The City of Edgewood is soliciting bids for the purchase of an AMBULANCE for the use by the Edgewood Fire/EMS Department.

The bids are due at 10:00AM on March 5, 2020. The bids must be in a sealed envelope, clearly marked "Ambulance" and submitted to the attention of:

Chief Tom Dickman
City of Edgewood
385 Dudley Rd.
Edgewood, KY 41017

The project will be awarded to lowest and best bidder as is determined by the Edgewood Fire/EMS.

In the event that there are any questions concerning these specifications, the bidder is directed to contact:

Chief Tom Dickman
Edgewood Fire/EMS
385 Dudley Rd.
Edgewood, KY 41017
Phone # 859-341-2628
tdickman@edgewoodky.gov

Scope

This specification is for one, commercially produced, surface medical care vehicle, hereinafter referred to as ambulance or vehicle. The vehicle in compliance with this specification shall be defined as standard ambulance. This vehicle shall be in accordance with the Ambulance Design Criteria of the National Highway Traffic Administration, U.S. Department of Transportation, Washington D.C. This bid specification is based on the Federal Ambulance Specification KKK-A-1822F.

Purpose

The purpose of this document is to provide minimum specifications and test parameters for the manufacture of an emergency medical care vehicle that meets the needs and desires of this agency. It establishes essential criteria for the design, performance, equipment and appearance of the vehicle. The object is to provide a vehicle that is in accordance with nationally recognized guidelines.

Classifications

This specification calls for the following type of vehicle. It is in accordance with KKK-A-1822F. Cut-away chassis with modular ambulance body. Four wheel driven (4x4)

General

This is an engineer, design, construct and deliver type specification and it is not the intention of this agency to write out vendors or manufacturers of similar or equal equipment of the types specified. It should be noted, however that this specification is written around specific needs of this agency. With the intent to standardize certain components, therefore, in numerous places we have named specific brands of components. This has been done to establish a certain standard of quality. Other brands will be accepted providing the vendor provides documentation in the bid that the particular brand offered meets or exceeds the quality of the actual brand called for in the specification.

Materials

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, which meet or exceed the requirements of this specification. The ambulance shall comply with all Federal Motor Vehicle Safety Standards (FMVSS), the Federal regulations applicable or specified for the year of manufacture. The chassis, components and optional items shall be as represented in the manufacturer's current technical data. Materials used in the construction shall be new and not less than the quality conforming to current engineering and manufacturing practices. Materials shall be free of defects and suitable for service intended.

Manufacturing Ability

It is the intent of these specifications that the manufacturer of these vehicles has the ability to manufacture a complete ambulance within their plant facility, except for the chassis. The basic modular body must be built "in house" by the manufacturing firm and not "farmed out" to another company, corporation or production site. Accessories such as light bars, sirens, etc. are not considered as basic components of the modular body. The ambulance manufacturer must have significant experience in the construction of modular ambulance bodies and have built a minimum of 2000 such bodies. In addition, the Bidder/ manufacturer must include with this bid, proof of \$3,000,000.00 product liability coverage. The ambulance dealer supplying the bid must include documentation of product liability coverage of \$ 3,000,000.00 on their dealership.

Exceptions to Specifications

Any exceptions to these specifications indicated must be clearly pointed out. Otherwise, it will be considered that items offered are in strict compliance with these specifications and the successful bidder will be held responsible for delivering a vehicle meeting these specifications. Any exceptions must reference by Paragraph Number and Line and be explained in detail on a separate sheet marked "Exceptions". Any bidder not complying shall not be considered as responsive. Bid packages shall not take total exceptions.

Information and Descriptive Material

Bidder must furnish all information requested. In addition, in the space provided on the bid, vendors shall supply at least three (3) complete sets of drawings, descriptive literature and complete specifications covering the products offered. (2 sets must be hard copy and one electronic). A work order generated by the ambulance manufacturer must be included with the bid response. This agency is extremely concerned with receiving complete data on vehicles being offered. All options contained in this bid MUST be shown on the work order.

Prices and Payments

All bid prices shall be complete and include warranty and delivery of the completed vehicle to this agency. Payment shall be made in accordance with these specifications and the Bid Proposal submitted by the Bidder. Payment will be made upon acceptance of the vehicle(s) and equipment specified under these specifications.

All bid prices and conditions must be specified on the Bid Proposal Form. Bid prices shall be valid for at least 60 days from the date of the Bid Opening, or as otherwise specified on the Bid Proposal form.

Full payment will be made as unit is received, inspected and found to comply with procurement specifications, free of damage and properly invoiced.

Warranty

The successful bidder shall provide manufacturer's warranty coverage for the ambulance which coverage shall, at a minimum include:

- A. A Limited Warranty on the ambulance conversion: Forty-eight (48) months or 48,000 miles from date of acceptance.
- B. Paint: Seven (7) years from date of acceptance.
- C. Electrical: Six (6) years or 72,000 miles from date of acceptance.
- D. Modular Body Structural Integrity: Fifteen (15) years from date of acceptance.
- E. Chassis: warranty on the chassis portion of the completed ambulance or rescue vehicle shall be the responsibility of the chassis manufacturer.

The manufacturer shall warrant to the original retail purchaser that, for the warranty period that the ambulance or rescue vehicle shall be free of substantial defects in materials and workmanship, which are attributable to Warrantor and which arise during the course of normal use and service. There shall be copies of the warranty statements included with the bid documents. All warranties must state specific time periods. Any warranty offering "limited lifetime" or "lifetime" will be rejected as vague. Further, pro rated warranties of any kind will not be considered and will serve as grounds for rejection of the bid.

Delivery

The delivery schedules that are submitted by the Bidder and agreed upon by the Purchaser shall automatically become binding upon the successful Bidder.

Non-Collusion Statement

By executing and submitting this bid, the Bidder certifies that his Bid is made without reference to any other bid and without any agreement, understanding, collusion or combination with any other person in reference to such bidding.

General Vehicular Design, Types and Floor plan

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

Specification intent

To secure a Ford F-450 4x4 chassis, constructed with not less than a 72-inch interior module height, an overall length of 280-inches, and an overall exterior height not to exceed 114-inches.

Purchaser's intent

The intent of the specifications supplied herein is to purchase an ambulance with the highest level of quality and engineering excellence. The intent of this vehicle will be centered on the patient's need for pre-hospital care, in conjunction with a safe working environment for the Emergency Medical Personnel.

Chassis Procurement

To insure chassis procurement directly from the chassis manufacturer, the ambulance manufacturer must be a chassis bailment pool company and have a certified bailment pool account number.

Manufacturer's Proof of Certification

This bid specification is based on the Federal ambulance specification KKK-A-1822F. A copy of manufacturer's approved certification testing from MME or other qualified testing facility shall be included with the bid. NO EXCEPTIONS.

Pre-Construction Meeting

Pre-Construction meeting must be held at Edgewood Fire/EMS with authorized representatives from both the purchaser and manufacturer. Both parties shall approve and sign any changes made during the meeting prior to commencement of any work being done on the apparatus.

Chassis

F.I.N. Code - QI434

Chassis to be 2020 Ford F-450 XLT 4x4 chassis with a Gasoline Engine Ambulance Prep Package.

CHASSIS ORDERED WITH ALUMINUM WHEELS

The chassis shall be ordered equipped with OEM aluminum wheels in lieu of steel.

Bid complies _____

Bid does not comply _____

PASS THROUGH CAB/MODULE, F SERIES

There shall be pass-through access between the cab and the patient compartment. A flexible weather-tight bellows shall be installed around the perimeter of the opening between the back of the cab and the front of the module body.

Bid complies _____

Bid does not comply _____

STANDARD CAB HEIGHT

The body design and placement of components mounted either to the chassis or to the front of the body must take into account the cab height for the chassis selected.

Bid Complies _____

Bid does not comply _____

TIRE PRESSURE MONITOR APEX, F450/550

The vehicle is to be equipped with Apex tire pressure monitoring caps on all tires. System is to be suitable for use with the OEM tires used on the specified F Series chassis.

Bid complies _____

Bid does not comply _____

MUD FLAPS, REAR, LARGE W/LOGO

Install individual rear mud flaps behind each set of rear wheels. Mud flaps to be made of a durable heavy-duty rubber and are to be securely attached to the vehicle. Mud flaps are to be sized appropriately for the chassis selected so as not to drag the ground and are to include the vehicle manufacturer's color logo embedded into the material. Separate logos that are affixed to generic mud flaps will not be considered.

Bid complies _____

Bid does not comply _____

REINFORCE REAR BUMPER END CAPS

The rear bumper end caps shall be reinforced so as to improve impact resistance.

Bid complies _____

Bid does not comply _____

RUNNING BOARDS: W/GRIP STRUT, F SERIES

Diamond plate running boards shall be installed on each side of the cab at the cab entry points. The running boards shall be constructed with .125" thick 3003-H14 alloy polished aluminum diamond tread plate. The running boards shall include splash shields at the forward end to protect the vehicle from spray and road debris. Sections of grip strut material shall be welded into the stepping surface on either side for additional foot grip and drainage.

Bid complies _____
Bid does not comply _____

EMBOSSSED BUMPER W/3" SET BACK STEP, F SERIES

The rear of the vehicle shall be equipped with a step/bumper assembly to be fabricated from .125" polished embossed aluminum diamond Treadplate. The assembly shall be spaced out from the rear kick plate a minimum of 1.5". The center section shall be set 3" closer to the body than the step end caps and be welded in place. It is to be constructed with grip-strut on the stepping surface to provide for better footing. The ends of the assembly shall be fixed embossed diamond tread plate. The distance between the top of the step and the ground shall not be less than 16".

Bid complies _____
Bid does not comply _____

LIQUID SPRING SUSPENSION, F 450

The vehicle shall include a Liquid Spring hydraulic rear suspension. The system shall include a dump feature, wired through the left rear entry door magnetic switch, to lower the cot loading height. Manual controls for this system shall be installed in the cab near the driver.

Bid complies _____
Bid does not comply _____

RECEIVER/DRYER KIT, FORD F-SERIES CHASSIS

A receiver/dryer kit with pressure switch shall be installed in the air conditioning system.

Bid complies _____
Bid does not comply _____

BODY

AMBULANCE BODY

The completed vehicle shall have the following minimum dimensions:

(Body)

-Height: 92"

-Width: 96.25"

-Length: 157"

(Interior)

-Height: 72"

-Aisle 48"

-Length: 153"

Bid complies _____

Bid does not comply _____

DESIGN REQUIREMENTS:

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

1. The greatest possible load carrying capacity is desired.
2. The safety of all vehicle occupants is of paramount concern.
3. The body design, including construction materials and fabrication techniques shall be proven to be durable.
4. The body shall be easily retrofitted to a new chassis should that need ever arise.

With these concerns in mind the following requirements have been established for the purposes of this specification:

The vehicle converter shall design and construct its own module bodies, and maintain an engineering staff at its manufacturing facility to handle any custom body changes that may be necessitated by this design. It is the intent of this purchaser to receive a finished product of the highest standards of quality available. Vehicle manufacturers who design and build their own bodies and who have the expertise of an engineering staff will possess a greater capacity as far as handling a custom project of this type than manufacturers who purchase their bodies from an outside vendor. Accountability and quality of the design and construction of the body are enhanced when the vehicle converter manufactures the body.

Bid complies _____

Bid does not comply _____

BODY CONSTRUCTION:

The construction process described within this specification will ensure that the body shall remain structurally intact. However, to achieve this level of quality and durability, the module body, including all doors, must be constructed correctly initially. This specification requires that the module body, including all doors, be built within a tolerance of one five-thousandths of one inch. To achieve this the vehicle manufacturer must use, as standard practice, CNC machinery to provide for both accuracy and repeatability within the manufacturing process. Use of precision equipment will ensure that all door openings, door handles and latches, body windows, and warning light

assembly installation locations are of the correct size and square to the body. Repeatability must translate to interchangeability between parts of the same construction. Parts manufactured via this method shall be interchangeable with like parts to the extent that all extrusions, jambs, mounting holes, and any other fabricated component or characteristic can be directly installed in place of an existing like part on another unit. Cutting done by hand, such as with a jigsaw, is not desired unless it involves the chassis, or unless a warning light assembly must be located in such a way that it depends on the layout of the finished vehicle. (E.g. when a light must be centered within a paint stripe since the exact stripe location will not be determined until the module is built and mounted.) In addition, utilization of CNC equipment will simplify the production of replacement body panels in the event of an accident since the computer can duplicate a given part exactly. This includes documentation of all body light locations. Manufacturing processes that do not utilize CNC machinery will not meet the requirements of this document and will be rejected.

Bid complies _____

Bid does not comply _____

PAYLOAD REQUIREMENTS:

The vehicle payload shall meet or exceed that called for in the current KKK-A-1822 specification or NFPA 1917 standard. The vehicle manufacturer shall, upon notice by this purchaser, provide a written statement from an independent engineer that the model being offered has met this set of criteria. Before delivery of the completed unit the manufacturer shall weigh the vehicle. A written statement of those weights shall be affixed to the inside of the street side front #1 compartment door. This purchaser reserves the right to have the finished vehicle weighed independently upon delivery. If it is found that the written statement of weight provided by the manufacturer is inaccurate beyond what may be reasonably explained as a slight difference in the calibration of the scales, then the vehicle will be rejected. It should be noted that this purchaser, while interested in attaining the greatest possible payload, is unwilling to compromise on the structural requirements of a strong, durable, and safe body. All bidders must understand these factors supersede concern over payload, and that the lightest body (greatest payload) will not necessarily be deemed sufficient to meet the stringent quality and safety requirements set forth herein.

Bid complies _____

Bid does not comply _____

MODULE BODY CONSTRUCTION AND WARRANTY:

The module body shall be constructed per the following detailed specifications. Generally speaking, the body shall be of all-aluminum construction. Aluminum is shown to reduce weight over several other materials. It also possesses anti-corrosion properties that are essential for a vehicle of this type. The exact aluminum material requirements are explained in further detail below. The choice of materials and the design shall allow the manufacturer to warrant the materials and workmanship of the module body for a period of thirty (30) years as set forth in the warranty section of this specification. The manufacturers structural warranty shall specifically cover:

-The continued and correct alignment of both compartment and access doors.

-Seam or joint separation in door construction.

-Aluminum interior cabinetry.

The warranty shall be fully transferable to a new owner should the vehicle ever be sold. In addition, should the manufacturer bidding this proposal re-chassis the vehicle within the period of the initial structural warranty, then an additional 5 years shall be added to the remaining amount of warranty coverage left at the time of re-chassis. This warranty shall be revalidated in five-year increments each time the body is mounted to a new chassis provided that the warranty has not expired, that this purchaser authorizes any necessary repairs, and provided that the original manufacturer performs the re-chassis.

Bid complies _____

Bid does not comply _____

CORNER POST SUPPORTS:

The body structure must be able to support the loaded weight of the vehicle in the unlikely event of a rollover. A structure is required that will enhance the safety of both patients and attendants in the event of an accidental collision. The foundation of a solidly built module body is the utilization of strong corner posts in both the sidewalls and the roof. A one-piece 90-degree radius post is required. The posts shall include a full-length W shaped extrusion that forms a fully encased web inside the post for strength. This reinforcing member shall angle inward just before it joins the radius to form a small slot where the edges of the aluminum skin will be inserted prior to the final welding. Because the structural integrity of a body is derived from the corner posts, subfloor, and framework, corner posts that are a part of the exterior body skin (e.g. rolled corner posts) will not be considered, nor will corner posts which do not have an integral center reinforcement as part of the extrusion.

Bid complies _____

Bid does not comply _____

CORNER POST STRENGTH:

The corner post extrusions shall possess a minimum ultimate tensile strength of 27,000 psi (6063-T5).

Bid complies _____

Bid does not comply _____

ROOF EXTRUSIONS:

The horizontal roof extrusions shall conform to the same construction description as the vertical wall extrusions. They will, however, include an extruded drip rail as a part of the one-piece posts. Because the drip rail is a part of the post itself there will be no seams between the rail and the body above the rail. In addition, there shall be drip rails installed above all body doors that are not full height. These rails shall attach via a durable adhesive.

Bid complies _____

Bid does not comply _____

WALL AND ROOF SKIN SUPPORTS:

The exterior wall and roof skins shall be supported on the inside by 2" square tubing with .125" wall. These structural supports shall be strategically located at the load bearing points of the module body. The roof structural support beams shall be spaced on minimum 12" centers for adequate load support. Wall tubing of .125" thickness or less will not be acceptable.

Bid complies _____

Bid does not comply _____

HORIZONTAL WALL SUPPORTS:

In addition to the vertical wall supports there shall be a horizontal beam, located in the beltline area, to provide additional protection in the event of a side body collision.

Bid complies _____

Bid does not comply _____

GUSSET ENHANCEMENT:

Gusset supports, made from 2" square tubing, shall be installed throughout the vehicle for added strength. Each gusset shall be a minimum of 5" long at its longest point. A minimum of twenty-four (24) of these gussets shall be welded into the vehicle support structure. Areas of installation shall include but not be limited to: all door openings, all body corners, and above all wheel wells. Designs that utilize no gussets, or gussets of lesser material size or strength, are not acceptable.

EXTERIOR BODY PANELS:

The materials selected for the body skin have been chosen because of this vehicle expected heavy-duty cycle and the good wear characteristics that this material has shown in the field. The material shall be a minimum 5052-H34 alloy with an ultimate tensile strength of 38,000 psi. This material has been chosen because it is less prone to fail due to stress than other weaker materials such as 5052-H32 alloy.

Bid complies _____

Bid does not comply _____

EXTERIOR BODY PANEL MATERIAL:

The thickness required for exterior body panels is:

-Side, front, and rear walls: .125"

-Ceiling and floor panels: .090"

Note: The roof shall be constructed with a single sheet of 5052-H34 .090" thick aluminum. This one-piece construction is preferred over a multiple piece design. The roof shall incorporate a 3/8" crown designed to allow water to drain.

Bid complies _____

Bid does not comply _____

FLOOR CONSTRUCTION:

Floors that are uneven or are incapable of adequately supporting the load being carried on the vehicle are unacceptable. For that reason, thin floor panels and/or a lack of floor supports are not desirable. To prevent buckling, sagging, oil canning or any other

structural breakdown of the flooring system a detailed description of the required construction process is provided.

The body subfloor shall be constructed of .090" 5052-H34 aluminum. The floor, from the front to the rear and from curbside to street side shall be supported by a minimum 2" x 3" tubular beams with a .25" wall. The floor just behind the axle shall be supported by a minimum 1.5" x 3" tubular beam with a .25" wall. All beams shall be strategically located at the load bearing points of the floor and welded into place. The interior of this vehicle shall contain no wood or wood products of any kind. The subfloor, above the aluminum sheet shall be specially constructed to provide both acoustic and thermal protection for the patient interior. It shall consist of the .090" aluminum with tubular understructure as noted above. The underside of this area is to be sprayed with a sound reduction coating. In addition, a .125" damping pad, a .125" sound barrier sheet, and a .625" aluminum composite floor panel shall be installed prior to installation of the vinyl floor covering. The purchaser reserves the right to inspect the process proposed by the bidder and to make determinations regarding the acceptability of that process. The resultant subfloor shall have no organic, wood, or wood products and shall be guaranteed against rotting or water absorption for a minimum of fifteen years. It shall not support or attract mold or fungus.

Bid complies _____

Bid does not comply _____

SKIN TO SUPPORT ATTACHMENT:

All exterior aluminum body panels shall be attached to the underlying structural supports via high performance polyurethane two-sided tape. The tape shall have a polyurethane foam core for environmental resistance and an acrylic adhesive for a durable bond. The tape will be used as an insulating agent to hold the panels tightly against the structural supports, thus eliminating vibration and oil-canning. In addition to the tape attachment system, all panels shall be welded to structural members at the perimeters only. Welding in the center of the panels is not desired as the process will cause heat distortion of the body panels and lessen the overall quality of the finished appearance. Use of the tape, as described here, will eliminate heat distortion without damaging the structural integrity of the module body.

Each body panel shall be welded to all horizontal frame members, including the roof extrusions. In addition, the panels shall be welded to the vertical corner posts. In the case of the roof, the perimeter of the one-piece roof sheet shall be stitch welded. This method of attachment shall provide a total welding application to the entire perimeter of the body skin and a taped/insulating application to the interior surfaces of all walls.

Methods of panel attachment that utilize rivets will not be acceptable.

Bid complies _____

Bid does not comply _____

STRUCTURAL INTEGRITY VERIFICATION:

Structural integrity, as stated elsewhere in this specification, is of extreme importance to this purchaser. As such, it is required that the manufacturer maintain a program of simulated crash tests. The manufacturers Hygee sled testing program must be current and have been maintained on a continuous basis for a period of time not less than ten years. In addition, the sled testing shall have subjected a body, built to the above-written specifications, to a minimum of 30 G's in both side and frontal impact conditions. Neither photographs of vehicles that have been involved in accidents, nor statements or observations relevant to an accident, be it from a customer or a manufacturer's representative, shall suffice as a substitute for this requirement. The sled testing must take place in a controlled environment whereupon meaningful engineering data can be gathered and applied to the structural design of the module body. Accidents that take place outside of this controlled environment do not yield any meaningful data. Therefore, real world accidents are considered anecdotal and cannot realistically be used by the manufacturer to judge the safety of a design.

Bid complies _____

Bid does not comply _____

MODULAR DOOR DESIGN:

Door panel separation, dirt accumulation at seams, paint imperfections, misalignment, and even malfunctions whereupon the door cannot be operated have been observed in many styles of door construction. These problems, along with the expected rugged use of the vehicle doors, shall be eliminated with a good overall design and construction process. With these thoughts in mind the modular doors shall be constructed as follows:

OUTER DOOR SKIN:

The door facing and edges shall be formed from a single sheet of aluminum. The aluminum used for the doors shall not be less than 5052-H34 alloy with an ultimate tensile strength of 38,000 psi. The material shall be .125" thick. All module doors shall be flush fit to the body side. The door panels must be welded at the corners.

Bid complies _____

Bid does not comply _____

INNER DOOR REINFORCEMENT:

Each door shall include an internal extrusion for added reinforcement. The extrusions shall extend around the entire perimeter of the door. Additional reinforcement shall be installed through the center of the door and around each window where applicable. In addition to the extrusions reinforcing each outer door pan, the extrusions themselves shall be reinforced through a dual joining method. First, each mitered corner, where the frame corners join, shall be fitted with a one-way solid aluminum insertable key. This key shall prevent the corner from pulling apart, and shall act as a solid aluminum internal gusset. Secondly, each corner where the frame joins shall be welded to further prevent any separation. The end result will be a rigid door that will not bend or flex and that will eliminate the other commonly seen structural defects described above.

Bid complies _____

Bid does not comply _____

INNER DOOR PAN:

An inner door pan shall fit flush with the inner edges of the door. Inner door pans that do not fit flush will have sharp or ragged edges exposed and will not be acceptable. The panels must be attached to the door structure with machine screws and "T" style Nutserts to prevent spinning stripping. Sheet metal screws or rivets will not be accepted. Lastly, a closed cell cross-linked polyolefin foam tape shall be used beneath the inner door panels to isolate the panels from the door frames. This process will prevent door rattling.

Bid complies _____

Bid does not comply _____

DOOR SEAL:

All module doors shall incorporate an extruded rubber seal located around the perimeter of the door. The seal shall insert into a groove in the inner door extrusion. Seals that are installed around compartment openings will be easily torn by the movement of equipment across them. In addition, glue will not be permitted except in the case of a double door compartment. The requested design does not include a groove on the underlying door edge of a double door compartment. That edge alone will require an adhesive. Glue for all seals is not desirable because of increased replacement time and insufficient durability.

Bid complies _____

Bid does not comply _____

DOOR JAMB:

All doorjamb must be separate from the body skin and must be welded to the 2" x 2" tubular body frame members so as to ensure continued door alignment and proper latching. The compartment frame shall be designed in such a manner as to provide extra protection around the compartment openings. The reinforcement tube shall be at least 1" wide. For added strength, the frame shall be at least .188" thick where screws are attached.

Prior to door installation the doors shall be true fit to the doorjamb. The fitting, prior to installation, shall provide added assurance that the door aligns properly with the doorjamb.

Bid complies _____

Bid does not comply _____

HINGING:

All doors shall have full-length stainless-steel hinges. The hinges shall be .070" thick and shall incorporate a .25" diameter pin.

All hinges shall have un-slotted mounting holes for an exact and permanent installation. Hinges that utilize slotted mounting holes are unacceptable because of the continued adjustments that they require.

There shall be an anti-corrosive material installed along the length of the hinge where the hinge meets the door frame to separate the stainless hinge from the aluminum body. This material shall be transparent so as not to be visible at any point while the door is being used.

Bid complies _____

Bid does not comply _____

HOLD-OPEN DEVICES:

The following door hold-open devices shall be installed:

-Compartment doors: Gas filled, 100-degree extension actuator

-Side access door: Gas filled, 110-degree extension actuator

-Rear doors: Cast Products grabber style devices

Spring-loaded devices are not desired because of their weaker holding capabilities and a lack of smooth door operation.

Bid complies _____

Bid does not comply _____

DOOR HANDLES AND LATCHING:

A door latching system is required that provides safety to all on-board personnel and security to all stored equipment. The patient area must be capable of being quickly secured. The following minimum features are to be designed into the module door latching system:

-All door handles shall be rugged automotive style handles that are near flush with the outer door panel. Each handle shall actuate a Nader rotary safety latch.

-The handle and latching system shall be designed by their manufacturer to accommodate electromagnetic activation. Paddle style or D ring style handles that must be retrofitted for this application are unacceptable.

-The entire exterior handle assembly shall be Tri/Mark Series 2200 cast metal that is chrome plated and buffed to a high luster.

-All doors shall have an exterior key lock.

-All three patient area access doors shall include both interior and exterior latch activators. The rear doors shall have an activator installed on the outside of each door. The interior activators shall be located in a recessed pan on the door. A manual lock/unlock device shall be located within the pan. This pan shall be powder coated cast

aluminum for extra durability and for ease of decontamination. No plastic products shall be used for this application.

-Exterior double door compartments shall include two exterior latching devices, one on each door.

-The entry doors shall incorporate emergency release levers located at each rotary latch. The emergency release handle shall allow emergency exit if a latch failure would occur.

The latching system shall be a proven system that has been subjected to the simulated sled tests as described elsewhere in this specification. Latching systems that have not been subjected to these tests will not have reliable data available as to installation and retention characteristics. Again, only controlled testing fulfills this requirement. Neither pictures of accidents, nor common observations gathered from damage surveys will suffice.

Bid complies _____

Bid does not comply _____

PATIENT AREA DOOR OPENINGS:

REAR DOORS:

Two (2) doors shall be provided at the rear of the module body. The overall opening of the access to be a minimum of 54.3" in height x 46.75" in width. Both inside and outside door handles shall be installed on each rear door. Left rear doors that can only be activated from the inside are not acceptable. These doors are to incorporate emergency release levers as described above.

SIDE DOOR:

One (1) side door shall be provided on the curb side of the module body. The opening shall have minimum overall dimensions of 71.1" in height x 30" in width.

Bid complies _____

Bid does not comply _____

INSULATION:

The patient area, including the doors, shall be insulated with 2" Technicon polyfiber for both thermal and acoustic insulation. The headliner area of the vehicle shall also include a barrier insulation of Reflectix material for increased protection. Bidder should note additional insulation requirements specified elsewhere within this document.

Bid complies _____

Bid does not comply _____

HEADROOM, 72"

The interior headroom of the finished patient area shall be 72".

Bid complies _____

Bid does not comply _____

ALUM. DIAMONDPLATE AT SIDE STEPWELL

The side door stepwell is to be fabricated from .125" 3003-H14 polished aluminum diamond tread plate.

Bid complies _____

Bid does not comply _____

DOUBLE STEP CURBSIDE ENTRY, 6" DROP SKIRT

The curbside body skirt, forward of the rear wheel well, shall be dropped six (6) inches. Two integral aluminum diamond plate steps shall be installed within the side access door step well for improved accessibility to the patient compartment. Under no circumstances shall this be accomplished by bolting an additional step to the step well. The design must be such that all steps are integral. The use of bolts, rivets, or any other type of fastener is prohibited.

Bid complies _____
Bid does not comply _____

STREETSIDE 6" DROP SKIRT

The streetside body skirt, forward of the rear wheel well, shall be dropped six (6) inches. The extra 6" is to be added to the applicable compartments in this area.

Bid complies _____
Bid does not comply _____

SOUND PROOFING/ACOUSTIC ENHANCEMENT PACKAGE

To ensure good working conditions and to create a stable patient environment, the vehicle shall be manufactured with particular attention paid to sound control. The following process must be performed throughout the manufacturing cycle of the vehicle:

1. Underbody shall be completely sprayed with non-flammable latex sound control coating
2. Body Interior walls, roofs and interior compartment walls shall be sprayed with non-flammable latex sound control coating
3. The interiors of all access doors shall be sprayed with non-flammable latex coating
4. The backs of all aluminum interior cabinets shall be wrapped in antiphon damping material
5. Door interiors are to be lined with polydamp intefoam extensional damping pad
6. The body structural tubes shall be filled with non-resonating dampening material
7. Side stepwell areas are to be backed with PT Damping Pad
8. All walls shall be insulated with 2" Technicon polyfiber acoustic insulation.
9. Headliners shall be double insulated with 2" Technicon Polyfiber and a Reflectix barrier.
10. A .125" damping pad, a .125" sound barrier sheet, and a .625" composite floor panel sandwiched between aluminum sheets shall be installed prior to installation of the vinyl floor covering.
11. A chassis tuned mounting system shall be used to provide vibration reduction and structure borne noise attenuation. Chassis OEM puck style mounts will not be accepted as "equivalent to" or "exceeding" this requirement. See body mounting specification within this document for additional information.

Bid complies _____
Bid does not comply _____

ROOF POCKET, AUXILIARY CONDENSER

The roof of the body shall be designed with an integral recessed pocket to allow for the specified recessed rooftop condenser. The pocket is to be sealed off except for a drain line to the ground to prevent build-up of water inside the pocket.

Bid complies _____

Bid does not comply _____

WINDOWS, FIXED, REAR ENTRY DOORS

The rear module body access doors shall include clear fixed windows. Each of these windows shall measure 16.5"h x 17"w and shall meet FMVSS requirements. The windows shall be encased in extruded aluminum frames. Under no circumstances will RV style windows, windows that rely on rubber gaskets, windows that do not feature extruded aluminum frames, or windows that do not meet the above stated minimum dimensions be acceptable.

Bid complies _____

Bid does not comply _____

WINDOW, SLIDING FOR SIDE ENTRY DOOR

The side entry door shall have a clear sliding window. This window shall measure 16.5"h x 17"w and shall meet FMVSS requirements. The window shall be encased in an extruded aluminum frame. Under no circumstances will RV style windows, windows that rely on rubber gaskets, windows that do not feature extruded aluminum frames, or windows that do not meet the above stated minimum dimensions be acceptable.

Bid complies _____

Bid does not comply _____

EMERGENCY RELEASE, REAR DOORS

The manufacturer shall install emergency release latches at the top and bottom of the interior of the rear entry doors. These will allow egress in the event of a door latch failure. The release knobs are to activate the rotary at the top and bottom of the door. Doors without this feature will not be considered.

Bid complies _____

Bid does not comply _____

EMERGENCY RELEASE, SIDE ACCESS DOOR

The manufacturer shall install emergency release latches at the top and bottom of the interior of the side entry door. These will allow egress in the event of a door latch failure. The release knobs are to activate the rotary at the top and bottom of the door. Doors without this feature will not be considered.

Bid complies _____

Bid does not comply _____

DOOR HANDLES

The vehicle is to include Tri-Mark free floating door handles. The handles shall include a chrome finish and are to activate the door latches through the use of pre-stretched stainless-steel cables. Latches using cables made of any other material or that are not pre-stretched are not acceptable. The interior door panels are to be three piece with a removeable center section allowing access to the latch mechanism for lubrication and maintenance.

Bid complies _____

Bid does not comply _____

VI-TECH MOUNTING, F SERIES

This purchaser requires a mounting system that provides a stable and durable attachment of the module body to the chassis frame. To accomplish this requirement the following body attachment method shall be used:

A minimum of (4) four Mounting platforms shall be attached along the outside of each chassis frame rail for a total of (8) eight. Each platform shall consist of (1) top plate of .375" thick steel and (2) side reinforcement plates made of .25" steel. There shall be a .375" full backing plate where the mount attaches to the frame rail. The plates shall be welded along all seams with a heavy continuous weld. The body substructure shall include a 1" by 3" solid aluminum tie down bar welded to each sub structure cross member. To complete the body to chassis attachment, a tuned mounting system shall be used. The elastomer mount shall be custom-tuned to the specific chassis type for vibration reduction, structure borne noise attenuation and to provide low profile, low frequency isolation necessary for ideal patient compartment conditions. Standard chassis furnished mounting donuts will not meet the requirements of this specification. The mount shall be attached to each platform by (2) .625" Grade 8 bolts with washers and locking nuts. The platform shall be attached to the chassis frame rail with a minimum of (3) .625" diameter Grade 8 bolts with washers and locking nuts. The fail-safe elastomer isolation mount shall then attach to the aluminum body tie down bar with a .75" diameter Grade 8 bolt, a washer, and a locking nut.

The mounting system must have been subjected to a documented Hygee dynamic frontal impact test of at least 30 G's to verify the integrity of the mounting system in the event of a serious accident.

Bid complies _____

Bid does not comply _____

MIRROR STAINLESS STEEL SPLASH SHIELDS

Stainless steel splash shields are to be installed on the lower front face of the module body just aft of the cab access doors. These shields are to have a #8 mirror finish and shall match the height of the diamond plate corner guards.

Bid complies _____

Bid does not comply _____

FENDERS, RUBBER

Rubber extruded fenders shall be installed around the rear wheel well openings.

Bid complies _____

Bid does not comply _____

POLISHED STAINLESS RUB RAILS

Polished stainless lower body rub rails shall be installed on each side of the module body. Each rail shall be securely installed yet simple to remove and replace in the event of damage. Each rail is to be a three piece assembly to include a channel style rub rail and two removable end caps. These rails are to have a #8 mirror finish. Rubber rub rails are not acceptable to this purchaser.

Bid complies _____

Bid does not comply _____

SS CORNER GUARDS - On both top and bottom corners of the front of the body, install Polished Stainless-Steel trim pieces. The top pieces are to be approx. 12" long running down from the gutters. The lower panels are to be approx. 20" high measuring from the lower edge of the body.

REAR DOOR HOLD OPENS, GRABBER

Cast Products "Grabber" style rear door hold-open devices shall be installed to maintain the rear access doors in the 'open' position. One loop shall be installed on each door, and the appropriate socket shall be installed on the body. These devices are to be chrome finish in lieu of Cast Products' standard finish.

Bid complies _____

Bid does not comply _____

ENTRY DOOR THRESHOLDS, LINE-X

The one-piece stainless steel thresholds' at both the side and rear entry doors are to be covered with black Line-X material. No anti-slip adhesive tapes are to be used.

Bid complies _____

Bid does not comply _____

REAR RISER ADP

Install a polished aluminum diamond tread plate riser between the bottom of the rear entry door opening and the bottom of the body. The manufacturer shall include any necessary holes to accommodate other items installed in this area.

Bid complies _____

Bid does not comply _____

LICENSE PLATE BRACKET, STREETSIDE OF RISER

A recessed rear license plate bracket with integral reverse activated lights shall be provided at the location described above. An LED license plate light is to be included.

Bid complies _____

Bid does not comply _____

DOOR REFLECTORS

Install red reflectors on the interior panels of all patient compartment access doors. Install in the corners so as to be visually conspicuous when the doors are open.

Bid complies _____

Bid does not comply _____

COMPARTMENTATION

STREETSIDE FORWARD COMPARTMENT

The compartment described above shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. The compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment. Compartment dimensions are detailed on the drawings provided with this document.

Bid complies _____

Bid does not comply _____

SS FORWARD COMPT. DIAMONDPLATE

The streetside forward compartment is to be fabricated from .125" polished aluminum diamond plate that is continuously welded at all seams.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF STREETSIDE FRONT - Track to run from compartment ceiling to top of Oxygen Cylinder

Shelving shall be installed as noted and as depicted in the drawings. All shelving is to be fabricated from 3003-H14 aluminum diamond plate. This material shall be .125" thick. All shelving is to include a 2" integral lip to prevent equipment from sliding off of the shelf. The compartment light shall meet the lighting criteria as described elsewhere within this specification. Shelving is to be secured using four (4) 'C' channels, two (2) on each the right and left hand wall, allowing the shelving to be infinitely adjustable within the compartment.

Bid complies _____

Bid does not comply _____

SWEEP OUT COMPARTMENT FLOOR, SS FRONT

The floor of the streetside forward compartment shall be flush with the door frame so as to provide a sweep-out style compartment bottom. There shall be no lip at the forward edge of the compartment bottom, or any other obstruction, that may hinder the purchaser's ability to sweep the compartment free of dirt and/or debris.

Bid complies _____

Bid does not comply _____

STREETSIDE INTERMEDIATE COMPARTMENT

The compartment described above shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. The compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment. The height of the compartment is to be such that an interior cabinet can be installed beneath the action area countertop. Compartment dimensions are detailed on the drawings provided with this document.

Bid complies _____

Bid does not comply _____

SS INTRMDT COMPT. DIAMONDPLATE

The streetside intermediate compartment is to be fabricated from .125" polished aluminum diamond plate that is continuously welded at all seams.

Bid complies _____

Bid does not comply _____

RIGHT SIDE MOUNTED ELECTRICAL EQUIPMENT

Electrical storage: The onboard electrical components including the suction pump, breaker box, and battery charger shall be installed on the right side of the streetside intermediate compartment.

Bid complies _____

Bid does not comply _____

EXPANDED METAL CAGE, STREETSIDE INTERMEDIATE

The manufacturer shall provide an expanded metal cage around the installed electrical equipment located as noted above. The cage shall include access ports with grip-lock around the edges to protect against sharp corners.

Bid complies _____

Bid does not comply _____

STREETSIDE WHEELWELL COMPARTMENT

The compartment described above shall include a compartment door affixed to an aluminum diamond plate slide-out tray. The door/tray assembly shall include Accuride slides along with a latching mechanism to assure that the tray will remain in the "closed" position. The door and compartment construction methods and materials utilized shall match those listed within the appropriate section of this specification. Lighting is not required in this compartment.

Bid complies _____

Bid does not comply _____

WHEELWELL COMPT. DIAMONDPLATE

The specified wheelwell compartment is to be fabricated from .125" polished aluminum diamond plate that is continuously welded at all seams.

Bid complies _____

Bid does not comply _____

STREETSIDE REAR COMPARTMENT

The compartment described above shall be accessed through double hinged doors meeting the standards for door construction, hinging, and latching outlined within this specification. The compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment. Compartment dimensions are detailed on the drawings provided with this document.

Bid complies _____

Bid does not comply _____

SS REAR COMPT. DIAMONDPLATE

The streetside rear compartment is to be fabricated from .125" polished aluminum diamond plate that is continuously welded at all seams.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF STREETSIDE REAR - Centered

Shelving shall be installed as noted and as depicted in the drawings. All shelving is to be fabricated from 3003-H14 aluminum diamond plate. This material shall be .125" thick. All shelving is to include a 2" integral lip to prevent equipment from sliding off of the shelf. The compartment light shall meet the lighting criteria as described elsewhere within this specification. Shelving is to be secured using four (4) 'C' channels, two (2) on each the right and left hand wall, allowing the shelving to be infinitely adjustable within the compartment.

Bid complies _____

Bid does not comply _____

CURBSIDE REAR COMPARTMENT

The compartment described above shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. The compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment. Compartment dimensions are detailed on the drawings provided with this document.

Bid complies _____

Bid does not comply _____

CS REAR COMPT. FLAT ALUMINUM

The curbside rear compartment is to be fabricated from .125" flat aluminum material that is continuously welded at all seams.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF CURBSIDE REAR - Adjustable, above the Stair Chair Pocket

Shelving shall be installed as noted and as depicted in the drawings. All shelving is to be fabricated from 3003-H14 aluminum diamond plate. This material shall be .125" thick. All shelving is to include a 2" integral lip to prevent equipment from sliding off of the shelf. The compartment light shall meet the lighting criteria as described elsewhere within this specification. Shelving is to be secured using four (4) 'C' channels, two (2) on each the right and left hand wall, allowing the shelving to be infinitely adjustable within the compartment.

Bid complies _____

Bid does not comply _____

FIXED VERTICAL DIVIDER, CURBSIDE REAR - Approx. 10" from Right Hand Wall.

A 16" deep vertical divider shall be installed in the curbside rear compartment as noted, and as depicted in the drawings. The divider shall be non-adjustable and shall be fabricated from the same material used in the construction of the compartment in which it is to be installed.

Bid complies _____

Bid does not comply _____

ROK BACKBOARD STRAP CURBSIDE REAR - From Fixed Divider to left wall.

A Rok buckle style backboard strap shall be installed in the compartment designated above. The straps shall attach to the compartment wall/divider through footman's loops that are screwed into place.

Bid complies _____

Bid does not comply _____

SWEEP OUT COMPARTMENT FLOOR CS REAR COMPT

The floor of the curbside rear compartment shall be flush with the door frame so as to provide a sweep-out style compartment bottom. There shall be no lip at the forward edge of the compartment bottom, or any other obstruction, that may hinder the purchaser's ability to sweep the compartment free of dirt and/or debris.

Bid complies _____

Bid does not comply _____

STAIR CHAIR POCKET, CURBSIDE REAR

A pocket shall be recessed into the inner compartment door panel in the curbside rear compartment for stair chair storage. The pocket shall be installed as close to the bottom and hinged side of door as possible.

Bid complies _____

Bid does not comply _____

STAIR CHAIR MODEL, STRYKER #6252

A Stryker #6252 stair chair will be stored in the designated location. This information is for sizing and placement purposes only. The bidder is not to supply a stair chair with the completed unit.

Bid complies _____

Bid does not comply _____

CURBSIDE INTERMEDIATE COMPARTMENT

The compartment described above shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. The compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment. Compartment dimensions are detailed on the drawings provided with this document.

Bid complies _____

Bid does not comply _____

CS INTRMDT COMPT. DIAMONDPLATE

The curbside intermediate compartment is to be fabricated from .125" polished aluminum diamond plate that is continuously welded at all seams.

Bid complies _____

Bid does not comply _____

CURBSIDE FORWARD COMPARTMENT

The compartment described above shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. Under no circumstances shall vents be installed within the compartment door. This door shall provide access to the front wall cabinet on the vehicle interior. The cabinet shall include LED strip lights to provide lighting inside the cabinet. Cabinet dimensions are detailed on the drawings provided with this document.

Bid complies _____

Bid does not comply _____

RUBBER MATTING IN EXTERIOR COMPARTMENTS

Black rubber matting, with a ribbed texture, shall be provided and installed in the bottoms of all exterior compartments and compartment shelves.

Bid complies _____

Bid does not comply _____

RUBBER WALLS IN BB COMPT, GRAY

The walls of the backboard compartment shall be covered with self-adhesive textured gray rubber matting to protect the walls and the equipment stored in this area from any damage.

Bid complies _____

Bid does not comply _____

PAINT AND GRAPHICS

CHASSIS PAINT - FLNA30054

The chassis shall be repainted as noted. The paint used is to be Sikken in the color and paint code specified. The chassis paint is to be covered under the manufacturer's paint warranty.

Bid complies _____

Bid does not comply _____

MODULE PAINT - FLNA30054

A paint process is required that provides the highest possible gloss as well as superior color and luster retention characteristics. In addition, the paint process must provide a high resistance to chemical sprays, salt sprays, humidity, and temperature changes. Lastly, this process, given the expected life of the vehicle and its heavy-duty cycle, must resist chipping. The final paint application shall be free of material application imperfections such as orange peel, streaking, or a dull finish. Once painted, the vehicle shall be inspected under a black light to bring any small imperfections, not seen with the naked eye, to attention. Any such imperfections shall be repaired prior to the conclusion of the paint inspection process. The final application shall provide a high gloss finish.

Bid complies _____

Bid does not comply _____

To produce an acceptable paint finish, the following paint process must be used:
All body doors and hardware must be removed prior to any wash, prime, or final paint

application. All material impurities and oils must be removed from the bare aluminum body. The entire module body, excluding the underside, will have all visible welds ground down and all material imperfections filled. The entire body, including the compartment doors, must be finished with a DA. It is also required that all door jamb areas be sanded to ensure that no areas are missed with the DA process mentioned above. All holes (e.g. for hinge mounting, etc.) shall be plugged at this stage to prevent any cleaning agents from entering the module body framework. The body shall be prepared for paint by spraying with a high strength detergent followed by a water rinse. Next the body and compartment doors are to be sprayed with a phosphoric acid-based cleaner to remove dirt and oil and to etch the body for superior paint adhesion. The application of the acid-based cleaner shall be followed with a water rinse. Next, a conversion coating shall be applied to the body to enhance paint adhesion and to prevent corrosion. The body shall be rinsed with de-ionized water to prevent salts from accumulating on the surface. The body will, then, be baked dry prior to the application of Sikken sealer/primer. Again, all module doors, though handled separately from the body, shall undergo the same process as described above.

Bid complies _____

Bid does not comply _____

Immediately after application of the sealer/primer the manufacturer shall apply a finish color coat of Sikken BTLV 650 paint. The color coat is to be immediately followed by a clear coat. Once all coats are applied the unit is to be baked dry. This base coat/clear coat 'wet on wet' process is required over any other proposed process. Processes not meeting these specific requirements must be explained thoroughly within the bid.

Bid complies _____

Bid does not comply _____

Following the drying of all paint coats the unit is to be thoroughly inspected as noted above. The unit is to be polished and any blemishes repaired. All paint lines must be sanded and cleaned.

Bid complies _____

Bid does not comply _____

The manufacturer shall maintain an outside paint audit system. As part of that audit the paint manufacturer shall regularly receive and test sample paint panels that are painted along with module bodies. The paint manufacturer shall also provide regular onsite inspections of the vehicle manufacturers paint process to assure a consistent level of quality. Audit reports from these inspections shall be provided to management.

Bid complies _____

Bid does not comply _____

All locations where fasteners penetrate the outer skin of the module body shall be coated with ECK anti-corrosion agent. In addition, all fasteners that penetrate the outer skin of the module body shall be treated with an anti-corrosion agent to assure the maximum protection against vehicle corrosion and electrolysis.

Bid complies _____

Bid does not comply _____

Locations where light heads and fenders attach to the aluminum body shall utilize threaded Nylon inserts to isolate the fasteners from the aluminum module body skin and structure. This practice, along with the other measures described above, shall act to minimize the threat of electrolysis.

Bid complies _____

Bid does not comply _____

The paint warranty provided by the converter must meet all warranty standards as set forth elsewhere within this specification. Bidder must submit a manufacturer's paint warranty certificate with the bid. Failure to do so will result in automatic rejection of the bidder's proposal.

Bid complies _____

Bid does not comply _____

The paint color and code are noted above.

Bid complies _____

Bid does not comply _____

Unit will have a 2-tone paint scheme

Paint the drip rails and up (including flat of roof) Ford white. Everything below drip rails will be red.

Upper part of cab to be Ford white. Bottom of the cab from below window line and down to be red to match existing Edgewood apparatus.

PAINT PANEL: SAMPLE - FLNA30054

The successful bidder shall provide a painted test panel, prepared with the specified paint color and number. This process shall confirm correct paint selection, and acceptable color match with the purchaser's requirements.

Bid complies _____

Bid does not comply _____

STAR OF LIFE, 36"

The bidder shall provide a 'Star of Life' emblem on the module body roof. The emblem shall be 36" blue Scotchlite with black shade and outline. A Mylar laminate shall be applied to the emblem's surface in order to protect against scuffing, and to provide added longevity. Emblems that do not have this protective covering are not acceptable.

Bid complies _____

Bid does not comply _____

ACCESS DOORS RED SCOTCHLITE STRIP

Red Scotchlite strips, measuring 2" x 12". shall be installed horizontally on the interior panels of all patient area access doors near the top.

Bid complies _____

Bid does not comply _____

INTERIOR FEATURES**ACRYLIC COLOR: LIGHT TINT**

All acrylic cabinet door material is to be the manufacturer's 'light tint'.

Bid complies _____

Bid does not comply _____

COUNTERTOP, GRAY GRANITE - Fore and aft of CPR seat

The patient area countertop material shall be solid surface. The countertop material shall incorporate a 1" radiused retention lip around the perimeter. This radiused corner shall also be tapered to avoid any sharps edges. A radius cove molding shall be installed at either end of the countertops where the material meets the cabinet wall. The rear edge of the material, adjoining the side wall of the vehicle, shall be sealed with silicone. In addition, any and all areas that require seams due to manufacturing processes shall be sealed with silicone. This material shall be uniform throughout so that scratches can be buffed out without causing adverse effects on the appearance of the material. The material color is to be Gray Granite. Locate as noted above.

Bid complies _____

Bid does not comply _____

PAINTED STANDARD INHALATION AREA WALLS

The walls surrounding the work areas within the main cabinet wall are to be painted to match the interior cabinet color.

Bid complies _____

Bid does not comply _____

INHALATION PANEL, LAMINATE COVERED

To prevent contamination of the inhalation panel the panel shall be fabricated using no wood or wood-based products. The material used shall be an aluminum composite material. This material shall not absorb liquids and shall not attract bacteria, molds or fungi. The material is to be covered with Formica material in a color matching that required within this document.

Bid complies _____
Bid does not comply _____

LONSEAL LONPLATE II GUNMETAL #424

The patient area floor is to be covered in Lonplate II Gunmetal #424.

Bid complies _____
Bid does not comply _____

WILSONART FASHION GRAY #D381, RISERS

The risers are to be constructed without the use of wood, wood-based products, or any other organic material. The use of laminated structural composite material is required. The risers shall be finished with Wilsonart Fashion Gray #D381 laminate.

Bid complies _____
Bid does not comply _____

STAINLESS STEEL LOWER DOOR PANELS

The lower portion of the patient area entry doors shall be covered with single sheets of stainless steel. Designs that do not incorporate this feature will not be considered as they will not be capable of protecting the door panels from damage due to cot movement, foot traffic, Etc.

Bid complies _____
Bid does not comply _____

WILSONART BLACK #1595, ACCENT

The interior risers/door panels are to include an accent stripe. The stripe is to be flush with the remainder of the riser. Color is to be Wilsonart Black #1595 laminate. An Exception to this requirement will be allowed should the bidder employ the use of 3-piece stainless door panels.

Bid complies _____
Bid does not comply _____

WILSONART FASHION GRAY #D381, WALLS

The interior walls are to be constructed without the use of wood, wood-based products, or any other organic material. The use of laminated structural composite material is required. The walls shall be finished with Wilsonart Fashion Gray #D381 laminate. The finish in the areas surrounding the inhalation/CPR seat areas are detailed separately within this document.

Bid complies _____
Bid does not comply _____

FASHION GREY CABINET COLOR

All interior storage cabinets, including the interior of the squad bench, shall be painted for ease of cleaning. Under no circumstances shall carpet be used within these storage cabinets as it is impossible to decontaminate. The paint color is to be Fashion Grey.

The paint shall be treated with an antimicrobial agent.

Bid complies _____

Bid does not comply _____

CABINET PAINT TO BE TEXTURED

The cabinet paint specified is to have a textured finish.

Bid complies _____

Bid does not comply _____

FLINT GREY VINYL COLOR

The patient area upholstery, including seat cushions, backrests and vinyl closeouts, is to be Flint Grey in color.

Bid complies _____

Bid does not comply _____

USSC CHILD, BLACK 4-POINT, FLINT GREY

Attendant's seat: A USSC bucket type seat with integral child safety seat shall be installed on the seat base in the rear-facing position. The seat shall be Flint Gray in color and shall be capable of adjustment from front to rear. The seat shall include an integral black 4pt seatbelt with attached safety vest to allow for greater comfort and passenger safety.

Bid complies _____

Bid does not comply _____

4 POINT SEAT BELT FOOT OF BENCH, BLACK

A 4-point seatbelt, black in color, shall be provided and installed at the foot bench position. The belt shall include a 4-retractor system to allow all four belts to be fully retractable. The belt shall also include quick one click design for ease of use. The belt is to be outfitted with a removeable vest designed to guide the belt into the proper position, prevent the buckle from moving up or down and side to side, and offer better support and comfort to the seat occupant. Installation hardware and wall anchorages are to have been tested and certified to meet all applicable requirements relative to occupant restraints.

Bid complies _____

Bid does not comply _____

4 POINT SEAT BELT HEAD OF BENCH, BLACK

A 4-point seatbelt, black in color, shall be provided and installed at the head bench position. The belt shall include a 4-retractor system to allow all four belts to be fully retractable. The belt shall also include quick one click design for ease of use. The belt is to be outfitted with a removeable vest designed to guide the belt into the proper position, prevent the buckle from moving up or down and side to side, and offer better support and comfort to the seat occupant. Installation hardware and wall anchorages are to have been tested and certified to meet all applicable requirements relative to occupant restraints.

Bid complies _____

Bid does not comply _____

4 POINT SEAT BELT, CPR SEAT, BLACK

A 4-point seatbelt, black in color, shall be provided and installed at the CPR seat position. The belt shall include a 4-retractor system to allow all four belts to be fully retractable. The belt shall also include quick one click design for ease of use. The belt is to be outfitted with a removeable vest designed to guide the belt into the proper position, prevent the buckle from moving up or down and side to side, and offer better support and comfort to the seat occupant. Installation hardware and wall anchorages are to have been tested and certified to meet all applicable requirements relative to occupant restraints.

Bid complies _____

Bid does not comply _____

ALUMINUM INTERIOR CABINETS

This specification requires an all-aluminum modular cabinet design. Aluminum, a minimum of .063" thickness, is required over wooden cabinetry due to its lighter weight, greater durability, and the ease with which it can be decontaminated. The main cabinet wall shall be of modular construction. All individual cabinets shall be of welded construction. Each modular cabinet shall then be bolted/welded together to comprise the main wall of cabinets inside the vehicle. All cabinets, including the main cabinet wall, shall be thorough insulated against noise and temperature. Each cabinet is to be wrapped on the back side in an insulating layer. Cabinets that are joined together shall also be insulated with expandable spray foam in between each cabinet. The face of all cabinets is to be trimmed in an aesthetically pleasing manner to match the patient compartment interior colors.

Bid complies _____

Bid does not comply _____

To ensure the safety of patients and attendants in the rear of the vehicle, the main cabinet wall installation shall have been tested to a minimum frontal impact of 30 G's per the requirements of the Safety Certification section of this specification. The main cabinet wall may not be constructed of any wood or wood product. Wooden cabinetry can warp, expand, contract, splinter, separate, or crack. Wood will also harbor bloodborne pathogens whereas aluminum can be easily cleaned. Aluminum will remain stable and securely mounted (no fibers to compress) over many years and miles of

continuous service. For these reasons, wooden cabinets, even when laminated with another material, will not be acceptable. Bids received that utilize any material other than that which is specified above will be considered non-responsive and will be rejected without further consideration.

Bid complies _____

Bid does not comply _____

All of the aluminum cabinetry within the vehicle shall be of welded construction. Methods of cabinet construction that utilize rivets or adhesives of any type will not be considered.

Bid complies _____

Bid does not comply _____

The all-aluminum cabinet construction, as described within this section, shall be warranted against any structural defects for a period of time not less than 30 years. This warranty shall be stated within the manufacturer's structural warranty document, and shall not be subject to any mileage limitations.

Bid complies _____

Bid does not comply _____

TUBULAR AIRBAG, ATTENDANT'S SEAT

The vehicle shall be equipped with a tubular airbag to the right of the attendant's seat. The bag shall be triggered by an electronic roll sensor to inflate and protect the seat occupant against severe head strikes typical in a roll over collision. In addition to being field proven, the system shall have been developed using laboratory-controlled roll over testing. The testing must have been done on the manufacturer's specific ambulance body. Generic testing or "real world" scenarios do not suffice to meet this requirement.

Bid complies _____

Bid does not comply _____

HEAD CURTAIN AIRBAG, ATTENDANT'S SEAT

The vehicle shall be equipped with a head curtain airbag to the right of the attendant's seat. The bag shall be triggered by an electronic roll sensor to inflate and protect the seat occupant against severe head strikes typical in a roll over collision. In addition to being field proven, the system shall have been developed using laboratory-controlled roll over testing. The testing must have been done on the manufacturer's specific ambulance body. Generic testing or "real world" scenarios do not suffice to meet this requirement.

Bid complies _____

Bid does not comply _____

ROLL SENSOR

The roll sensor used in conjunction with the specified airbag system is to be installed in the streetside (driver's side) intermediate compartment on the ceiling. Components are to be covered with a polished aluminum diamond plate closeout attached with tamper-proof screws.

Bid complies _____

Bid does not comply _____

TUBULAR AIRBAG, CPR SEAT LOCATION.

The vehicle shall be equipped with a tubular airbag forward of the CPR seat. The bag shall be triggered by an electronic roll sensor to inflate and protect the seat occupant against severe head strikes typical in a roll over collision. In addition to being field proven, the system shall have been developed using laboratory-controlled roll over testing. The testing must have been done on the manufacturer's specific ambulance body. Generic testing or "real world" scenarios do not suffice to meet this requirement.

Bid complies _____

Bid does not comply _____

CABINET TRIM RADIUSED

The interior of the ambulance module shall have radius corner extrusions, wherever possible, to round off cabinet corners. The radius shall be a minimum of one and a half inches. The radius trim shall also include a removable cap that can be field replaced if damage occurs.

Bid complies _____

Bid does not comply _____

TECHNIMOUNT LIFEPAK 15 SHELF MOUNT

A Technimount shelf mount with base plate for a Lifepak 15 shall be installed. Location shall be per drawings. This mount shall be compliant with Change Notice 10.

Bid complies _____

Bid does not comply _____

IV HANGER, CP WITH RUBBER ARM COT CHEST - Centered of Cot

A Cast Products recessed swing-down IV hanger shall be installed above the primary cot position near the patient's chest area. This hanger is to be near flush mounted into the patient area ceiling to reduce interference with the walkway when not in use. The arms of the hanger shall be rubberized so as to reduce the possibility of injury that may occur if contact is made with them. This style IV hanger shall be sufficient to meet Federal KKK-1822-E.

Bid complies _____

Bid does not comply _____

IV HANGER, CP WITH RUBBER ARM BENCH WAIST - Aisle Edge of Squad Bench

A Cast Products recessed swing-down IV hanger shall be installed above the squad bench position near the patient's waist area. This hanger is to be near flush mounted into the patient area ceiling to reduce interference with the walkway when not in use. The arms of the hanger shall be rubberized so as to reduce the possibility of injury that may occur if contact is made with them. This style IV hanger shall be sufficient to meet Federal KKK-1822-E.

Bid complies _____

Bid does not comply _____

GRAB RAIL: 6FT ANTI-MICROBIAL, OVER COT - Per Drawing

A 6' long grab rail shall be installed, offset toward the main cabinet wall over the cot position, in the patient area ceiling. This rail is to be constructed of stainless steel. Integral stanchions shall be welded into place at fixed points along the length of the rail for attachment to the ceiling. The rail shall attach through aluminum mounting plates that are welded to the module roof structure for strength and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi. The coating shall be integral and shall not consist of an agent that will need to be reapplied over time.

Bid complies _____

Bid does not comply _____

GRAB RAIL: 6FT WITH ANTI-MIC, OVER BENCH - Per Drawing

An 6' long grab rail shall be installed, offset toward the bench wall, approximately over the aisle edge of the bench cushions, in the patient area ceiling. This rail is to be constructed of stainless steel. Integral stanchions shall be welded into place at fixed points along the length of the rail for attachment to the ceiling. The rail shall attach through aluminum mounting plates that are welded to the module roof structure for strength and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi. The coating shall be integral and shall not consist of an agent that will need to be reapplied over time.

Bid complies _____

Bid does not comply _____

VERTICAL GRAB RAIL, 2' ANTI-MICROBIAL BOLSTER

Install a 2' long grab on the left side of the side entry door on the squad bench bolster. Install at an angle to assist entry and exit through the side access door. This rail is to be constructed of stainless steel. Integral stanchions shall be welded into place at either end of the rail for attachment to the bolster. The rail shall attach through aluminum substructure inside the bolster for strength and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi. The coating shall be integral and shall not consist of an agent that will need to be reapplied over time.

Bid complies _____

Bid does not comply _____

PATIENT DOOR GRAB RAILS: ANTI-MICROBIAL

Angled door handles shall be installed on the interior door panels of each access door. The handles shall be one-piece and shall be constructed of stainless steel. The overall design shall incorporate a smooth radius to form a 'V' shape, but shall otherwise mimic the design and appearance of other grab rails specified to be installed on this vehicle. The handles shall feature smooth radius corners and flange mounts at each of three (3) attachment points per rail. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi. The coating shall be integral and shall not consist of an agent that will need to be reapplied over time.

Bid complies _____

Bid does not comply _____

CEILING MATERIAL, PLATINUM WHITE COMPOSITE

The patient area ceiling shall be constructed of a bright white aluminum composite material consisting of a polyethylene core laminated between two sheets of coated aluminum. The headliner shall be smooth, impervious to moisture, easy to clean and durable. It shall have the same rate of expansion and contraction as the aluminum body. A Headliner that is padded or upholstered in any way will not be considered, nor will any headliner made of wood or wood products. Plastic, fiberglass or ABS headliner materials are not acceptable due to the cracking commonly caused by the differing rates of expansion. Lastly, the headliner material shall be treated with an antimicrobial agent.

Bid complies _____

Bid does not comply _____

STREETSIDE CABINETRY

LINEN CABINET

A vertical storage cabinet shall be located behind the attendant seat. The upper storage area shall house the primary electrical distribution area. The lower section shall be used for miscellaneous storage. Each area shall be accessed through hinged doors. The entire cabinet shall be fabricated from aluminum. The interior of the cabinet shall be painted and trimmed as described in the cabinet construction section of the specification.

Bid complies _____

Bid does not comply _____

FIXED SHELF, UPPER LINEN CLOSET

The upper section of the linen cabinet shall include a fixed aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

FIXED SHELF, LINEN CLOSET, CENTER SECTION

The middle section of the linen cabinet shall include a fixed aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to attach to the side walls of the cabinet at a minimum of two (2) locations per side. The shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF LOWER LINEN CLOSET

The lower section of the linen cabinet shall include an adjustable aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to attach to four (4) tracks installed on each the right and left hand walls, two (2) per side. The shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

SOLID LAMINATE-COVERED LINEN CLOSET DOOR

The linen cabinet is to include solid vertically hinged doors. The door construction is to utilize aluminum composite material that is laminated with a color coordinating outer layer on its face. Doors constructed of wood or any other type of organic material will not suffice to comply with this requirement due to the danger of contamination, rotting, compression at the attachment points which could lead to loosening and rattling, and the weaker structural characteristics inherent in such materials.

Bid complies _____

Bid does not comply _____

PIANO HINGE FOR LINEN CLOSET TOP DOOR

The upper section of the linen cabinet shall include piano style hinge.

Bid complies _____

Bid does not comply _____

PIANO HINGE FOR LINEN CLOSET MIDDLE DOOR

The middle section of the linen cabinet shall include piano style hinge.

Bid complies _____

Bid does not comply _____

PIANO HINGE FOR LINEN CLOSET LOWER DOOR

The lower section of the linen cabinet shall include piano style hinge.

Bid complies _____

Bid does not comply _____

LOCKING SOUTHCO LATCH, UPPER LINEN, CHANGE 10

The upper linen cabinet door is to utilize a locking Southco HD Stainless Steel flush-style latch. The latch shall feature a recessed pull ring style handle. The latch shall be both positive (mechanical latching) and passive (latches automatically) and is to be Change Notice 10 compliant with a weight rating of 25lbs.

Bid complies _____

Bid does not comply _____

LOCKING SOUTHCO LATCH, MIDDLE LINEN, CHANGE 10

The middle linen cabinet door is to utilize a locking Southco Stainless Steel flush-style latch. The latch shall feature a recessed pull ring style handle. The latch shall be both positive (mechanical latching) and passive (latches automatically) and is to be Change Notice 10 compliant with a weight rating of 25lbs.

Bid complies _____

Bid does not comply _____

SOUTHCO LATCH, LOWER LINEN, CHANGE 10

The lower linen cabinet door is to utilize a Southco Stainless Steel flush-style latch. The latch shall feature a recessed pull ring style handle. The latch shall be both positive (mechanical latching) and passive (latches automatically) and is to be Change Notice 10 compliant with a weight rating of 25lbs.

Bid complies _____

Bid does not comply _____

STREETSIDE WALL WITH CPR SEAT

The main cabinet wall inside the patient compartment is to be designed per the requirements of this document and shall include a CPR seat.

Bid complies _____

Bid does not comply _____

CPR SEAT, 28" WIDTH

The CPR seat shall measure 28" wide.

Bid complies _____

Bid does not comply _____

ANGLED UPPER CABINET, FORWARD OF CPR SEAT

The upper cabinet, forward of the CPR seat, is to be angled. The cabinet is to be Change Notice 10 compliant and is to include a .25" aluminum hinged door with a steel catch.

Bid complies _____

Bid does not comply _____

ANGLED UPPER CABINET, AFT OF CPR SEAT

The upper cabinet, aft of the CPR seat, is to be angled. The cabinet is to be Change Notice 10 compliant and is to include a .25" aluminum hinged door with a steel catch.

Bid complies _____

Bid does not comply _____

CUSTOM CABINET, Cabinet 1 - Dimensions: 12.75"H x 22.75"W x 16"D - Location: BELOW REAR COUNTER

The cabinet designated as 'Cabinet #1' is to meet all applicable specifications regarding cabinet materials and construction listed throughout this document. The cabinet dimensions are to be as noted above. Note that these dimensions represent the measurements on the inside of the cabinet and do not include any trim required for doors or cabinet faces.

Bid complies _____

Bid does not comply _____

POLYCARBONATE SLIDING, CHANGE 10, CABINET 1

The cabinet notated above is to include sliding polycarbonate doors. The door frame is to be designed with an integral groove that incorporates a Nylon/felt insert that allows for smooth and rattle-free operation. A manually operated latch shall be incorporated into the face of the door to prevent unintended opening of the doors in compliance with Change Notice 10 requirements. Designs that do not comply with this section will not be accepted.

Bid complies _____

Bid does not comply _____

CUSTOM CABINET, Cabinet 2 - Dimensions: 18.75"H x 24.75"W x 16"D - Location: Upper Rear Main Wall

The cabinet designated as 'Cabinet #2' is to meet all applicable specifications regarding cabinet materials and construction listed throughout this document. The cabinet dimensions are to be as noted above. Note that these dimensions represent the measurements on the inside of the cabinet and do not include any trim required for doors or cabinet faces.

Bid complies _____

Bid does not comply _____

POLYCARBONATE SLIDING, CHANGE 10, CABINET 2

The cabinet notated above is to include sliding polycarbonate doors. The door frame is to be designed with an integral groove that incorporates a Nylon/felt insert that allows for smooth and rattle-free operation. A manually operated latch shall be incorporated into the face of the door to prevent unintended opening of the doors in compliance with Change Notice 10 requirements. Designs that do not comply with this section will not be accepted.

Bid complies _____

Bid does not comply _____

INTERIOR SHELVING, Cabinet 2

Cabinet #2 shall include an adjustable aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to attach to four (4) tracks installed on each the right and left hand walls, two (2) per side. The shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

CUSTOM CABINET, Cabinet 3 - Dimensions: 30.75"H x 24.75"W x 16"D - Location: Lower Rear Main Wall

The cabinet designated as 'Cabinet #3' is to meet all applicable specifications regarding cabinet materials and construction listed throughout this document. The cabinet dimensions are to be as noted above. Note that these dimensions represent the measurements on the inside of the cabinet and do not include any trim required for doors or cabinet faces.

Bid complies _____

Bid does not comply _____

POLYCARBONATE SLIDING, CHANGE 10, CABINET 3

The cabinet notated above is to include sliding polycarbonate doors. The door frame is to be designed with an integral groove that incorporates a Nylon/felt insert that allows for smooth and rattle-free operation. A manually operated latch shall be incorporated into the face of the door to prevent unintended opening of the doors in compliance with Change Notice 10 requirements. Designs that do not comply with this section will not be accepted.

Bid complies _____

Bid does not comply _____

INTERIOR SHELVING, Cabinet 3

Cabinet #3 shall include an adjustable aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to attach to four (4) tracks installed on each the right and left hand walls, two (2) per side. The shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

UPPER INHALATION CABINET - 12.75"H x 34.75"W x 16"D

The cabinet located above the main inhalation/action area is to meet all applicable specifications regarding cabinet materials and construction listed throughout this document. The cabinet dimensions are to be as noted above. Note that these dimensions represent the measurements on the inside of the cabinet and do not include any trim required for doors or cabinet faces.

Bid complies _____

Bid does not comply _____

POLYCARBONATE SLIDING, UPPER INHALATION, CHANGE 10

The cabinet above the inhalation area is to include sliding polycarbonate doors. The door frame is to be designed with an integral groove that incorporates a Nylon/felt insert that allows for smooth and rattle-free operation. A manually operated latch shall be incorporated into the face of the door to prevent unintended opening of the doors in compliance with Change Notice 10 requirements. Designs that do not comply with this section will not be accepted.

Bid complies _____

Bid does not comply _____

LOWER INHALATION CABINET - 12.75"H x 46.75"W x 16"D

The cabinet located below the main inhalation/action area is to meet all applicable specifications regarding cabinet materials and construction listed throughout this document. The cabinet dimensions are to be as noted above. Note that these dimensions represent the measurements on the inside of the cabinet and do not include any trim required for doors or cabinet faces.

Bid complies _____

Bid does not comply _____

POLYCARBONATE SLIDING, LOWER INHALATION, CHANGE 10

The cabinet below the inhalation area is to include sliding polycarbonate doors. The door frame is to be designed with an integral groove that incorporates a Nylon/felt insert that allows for smooth and rattle-free operation. A manually operated latch shall be incorporated into the face of the door to prevent unintended opening of the doors in compliance with Change Notice 10 requirements. Designs that do not comply with this section will not be accepted.

Bid complies _____

Bid does not comply _____

CURBSIDE CABINERY

The head of bench will have (2) custom cabinet.

The upper cabinet will have (2) rear facing drawers of equal height, approximately 5". Each drawer to have (2) dividers with binning strips. Each drawer will have a Southco latch.

The lower cabinet will have (2) aisle facing drawer. Lower drawer will be for sharps/waste and to be provided with a Rubbermaid #2953 6 qt waste container and a #185 sharps container. The draw will have Southco latches.

The cabinet to have a stainless-steel countertop on top of the cabinet.

Bid complies _____

Bid does not comply _____

SQUAD BENCH WITH NO CUPS OR WELLS

A storage area, fabricated from .125" 5052-H34 aluminum, shall be installed beneath the squad bench cushion(s). This storage area shall be painted and trimmed per the cabinet construction section of this specification. Access to this area shall be gained by raising the bench cushion. This area shall be as large as possible given the presence of the wheelhouse directly beneath this area. Note that storage areas made of wood, whether or not they are laminated or otherwise covered with another material, will not be acceptable. The bench shall meet all applicable testing for crashworthiness. This testing shall have been performed by an independent accredited outside testing facility.

Bid complies _____

Bid does not comply _____

SQUAD BENCH END RESTRAINT, BOLSTER

There shall be a barrier constructed at the head of the squad bench that will provide a 19" high restraint which, when working in conjunction with the specified belt system, will assist in securing the occupant in the event of a rollover collision. This structure is to be designed to be integral with the body structure. Add-on components that are not structurally integral with the module body will not be accepted.

Bid complies _____

Bid does not comply _____

DOUBLE CUSHION SQUAD BENCH

The squad bench lid is to be equally divided into two sections. Cushioned seating surfaces shall be provided on each.

Bid complies _____

Bid does not comply _____

BENCH HOLD OPENS: GAS

24lb. Gas piston style hold-open devices shall be installed on the flip-up squad bench cushion. These devices will provide for smooth and simple operation. For that reason, substitute hold-open devices, such as ratchet style devices, will not be acceptable.

Bid complies _____

Bid does not comply _____

BENCH HOLD-DOWN: PADDLE LATCHES (PAIR)

Paddle style latches shall be installed on the flip-up bench cushions to hold the cushions in the 'closed' position. The operation of this latches shall be passive and shall require intentional unlatching in order to raise the squad bench cushion. The latch is to be flush mounted in the face of the squad bench riser.

Bid complies _____

Bid does not comply _____

BENCH CUSHION EDGE TRIM:

An aluminum angled trim piece shall be installed along the bottom edge of each bench cushion. Each piece shall be bent to follow the contour of each cushion on the horizontal plane. These trim pieces shall provide added protection for the upholstery against extensive wear.

Bid complies _____

Bid does not comply _____

BENCH BACK CUSHION: FULL SIZE

A full backrest cushion shall be installed on the wall over the squad bench. The cushion is to extend the full width of the squad bench and shall be trimmed to match the interior of the vehicle. The upholstery shall be as described in the upholstery section of this document.

Bid complies _____

Bid does not comply _____

BENCH CABINET W/HINGED DOORS & GLOVE STORAGE

SOUTHCO LATCH OVERHEAD BENCH CABINET

The hinged doors on the bench ceiling cabinet are to utilize Southco Stainless Steel flush-style latches. These latches shall feature recessed pull ring style handles. The latches shall be both positive (mechanical latching) and passive (latches automatically).

Bid complies _____

Bid does not comply _____

SELF CLOSING HINGE FOR OVERHEAD BENCH CABINET

The cabinet above the squad bench/curbside seating area shall include self-closing style hinges.

Bid complies _____

Bid does not comply _____

CABINET AT FOOT OF BENCH - Install a forward-facing compartment recessed into the curbside rear compartment. The cabinet will have (3) adjustable shelves and an acrylic door with self-closing hinges and Southco latch. Size as large as possible. In the lower portion of this cabinet there shall be a customer supplied Knox Med Vault II. This shall be wired with 12-volt battery hot electric. The bottom of the Med Vault shall not be lower than the squad bench cushion. The size of this combination cabinet shall be as large as possible.

Knox Med Vault delivery timing will be determined at Pre-Construction meeting.

Bid complies _____

Bid does not comply _____

i4G PANEL, BENCH WALL, ANGLED, HEAD

A rear control panel shall be installed in the specified angled housing over the head of the squad bench.

Bid complies _____

Bid does not comply _____

ANGLED HOUSING OVER HEAD OF BENCH

An angled housing shall be installed just below the forward portion of the bench ceiling cabinet. The housing shall provide an installation location for a rear electrical control panel.

FRONT WALL CABINETRY

FRONT WALL CABINET: FLAT ALUM PAINTED

A cabinet shall be provided on the front wall of the patient area just inside the side access door. This cabinet shall run from floor to ceiling and shall be fabricated from .125" welded aluminum. The cabinet shall be anchored at both the top and bottom for stability. This stability must have been tested through a Hygee sled test of at least 30g's. Under no circumstances shall this cabinet be welded to any module body structural member. This storage area shall be used to house purchaser supplied bagged equipment and supplies.

Finish Material: UV stable light gray polyurethane elastomeric coating

Color: Light gray

Bid complies _____

Bid does not comply _____

ACRYLIC HINGED DOORS, Upper front wall

The cabinet notated above is to include two vertically hinged doors. The doors are to be made of 1/2" acrylic material and are to be compliant with Change Notice 10.

Bid complies _____

Bid does not comply _____

SOUTHCO FLUSH SS PULL LATCH TOP FRONT WALL DOOR

The hinged doors on the upper section of the front wall cabinet are to utilize Southco Stainless Steel flush-style latches. These latches shall feature recessed pull ring style handles. The latches shall be both positive (mechanical latching) and passive (latches automatically).

Bid complies _____

Bid does not comply _____

SELF CLOSING HINGES TOP FRONT WALL CABINET

The upper section of the front wall cabinet shall include self-closing style hinges.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF, UPPER FRONT WALL TOP CABINET

The upper section of the front wall cabinet shall include an adjustable aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to attach to tracks to allow for adjustment within the available space, the shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

FIXED SHELF FRONT WALL MIDDLE CABINET

The center section of the front wall cabinet shall include a fixed aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF, LOWER FRONT WALL CABINET

The lower section of the front wall cabinet shall include an adjustable aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to attach to tracks to allow for adjustment within the available space, the shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

ACRYLIC HINGED DOORS, Lower front wall

The cabinet notated above is to include two vertically hinged doors. The doors are to be made of 1/2" acrylic material and are to be compliant with Change Notice 10.

Bid complies _____

Bid does not comply _____

SOUTHCO SS PULL STYLE LATCH LOWER FRONT WALL DOOR

The hinged doors on the lower section of the front wall cabinet are to utilize Southco Stainless Steel flush-style latches. These latches shall feature recessed pull ring style handles. The latches shall be both positive (mechanical latching) and passive (latches automatically).

Bid complies _____

Bid does not comply _____

SELF CLOSING HINGES LOWER FRONT WALL CABINET

The upper section of the front wall cabinet shall include self-closing style hinges.

Bid complies _____

Bid does not comply _____

CAB TO MODULE PASSTHROUGH WINDOW

A sliding pass-through window shall be provided between the cab and the patient compartment. The window shall include a latch to secure the window in the 'closed' position.

Bid complies _____

Bid does not comply _____

COT MOUNT

POWER LOAD, RAIL ONLY, CENTERED - Cot Type: Stryker Power Pro XT

The manufacturer shall supply and install a Stryker Power Load floor plate assembly kit, to include the rail, in the center position. It is understood that the finished unit will not comply with GSA Change Notice 8 since the manufacturer will not be installing the cot mount in its entirety.

Bid complies _____

Bid does not comply _____

VISUAL WARNING

Install Whelen #OS00FDR Flashing Lights on all exterior compartment and Curbside/Rear entry doors. (11 lights total)

FRONT LIGHTBAR

The vehicle is to be equipped with a front lightbar as specified in this document.

Bid complies _____

Bid does not comply _____

LIGHT BAR MOUNT: CAB ROOF

The specified front lightbar is to be installed on the chassis roof. Care is to be taken so as to prevent any leakage of water or wind noise into the cab.

Bid complies _____

Bid does not comply _____

The front light bar will be a 54" Whelen Liberty II WC series.

M7 RED/CLEAR LENS - Over each rear wheel housing

Whelen M7 series LED lighting shall be installed as noted. Lighting is to be red with clear lens and is to include the chrome flange. The lighting shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body.

Bid complies _____

Bid does not comply _____

M7 Amber/Clear Lens Rear Center KKK

A Whelen M7 series LED light shall be installed centered on the upper rear face of the body above the rear doors. The light is to be amber with a clear lens and is to include the chrome flange. The light shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body.

Bid complies _____

Bid does not comply _____

M9 RED/CLEAR LENS - Front body face, corners

Whelen M9 series LED lighting shall be installed as noted. Lighting is to be red with clear lens and is to include the chrome flange. The lighting shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body.

Bid complies _____

Bid does not comply _____

M9 RED/CLEAR LENS - Streetside Upper Corners

Whelen M9 series LED lighting shall be installed as noted. Lighting is to be red with clear lens and is to include the chrome flange. The lighting shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body.

Bid complies _____

Bid does not comply _____

M9 RED/CLEAR LENS - Curbside upper corners

Whelen M9 series LED lighting shall be installed as noted. Lighting is to be red with clear lens and is to include the chrome flange. The lighting shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body.

Bid complies _____

Bid does not comply _____

M9 RED/CLEAR LENS - Rear Upper Corner

Whelen M9 series LED lighting shall be installed as noted. Lighting is to be red with clear lens and is to include the chrome flange. The lighting shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body.

Bid complies _____

Bid does not comply _____

M9 RED/CLEAR LENS - Rear of body at Window Level

Whelen M9 series LED lighting shall be installed as noted. Lighting is to be red with clear lens and is to include the chrome flange. The lighting shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body.

Bid complies _____

Bid does not comply _____

FLASH PATTERN, 160 FPM A, B

The emergency lighting flash pattern is to be programmed to a 160FPM A/B pattern.

Bid complies _____

Bid does not comply _____

RED/CLEAR LENS, WHELEN ION GRILLE, TOP

Whelen ION series LED lights shall be installed in the upper portion of the chassis grille. Lights are to be red with clear lenses.

Bid complies _____

Bid does not comply _____

RED/CLEAR LENS, WHELEN ION GRILLE, BOTTOM

Whelen ION series LED lights shall be installed in the lower portion of the chassis grille. Lights are to be red with clear lenses.

Bid complies _____

Bid does not comply _____

RED/CLEAR LENS M7 LED INT. LIGHTS

Whelen M7 series LED lights shall be installed as intersection lights. Locate one (1) on each side of the chassis fender/hood area. Lights are to be red with clear lenses and are to include chrome flanges/bezels where applicable and weather proof plugs.

Bid complies _____

Bid does not comply _____

AUDIBLE WARNING

SIREN - Code 3 Microcom 3992 Siren in the Front Console.

SPEAKERS, CAST PRODUCTS, F SERIES

Cast Products 100W siren speakers (2) shall be installed (1) in each end of the chassis front bumper and wired to the specified siren.

Bid complies _____

Bid does not comply _____

NON-EMERGENCY LIGHTING

KKK SIDE BODY MARKER LIGHTS, M6 SERIES LED (PAIR)

One Whelen red M6 Series LED light with a red lens and a chrome flange shall be installed on each side of the vehicle towards the rear of the body. These lights shall function as both running lights and turn signals.

Bid complies _____

Bid does not comply _____

LED EXTERIOR COMPARTMENT LIGHTING

The compartment lighting for the exterior compartments noted above, with the exception of any specified wheelwell compartments, shall consist of full available height LED lighting strips. Strips of LED lights shall be installed on each side of the compartment opening on the inside of the door jamb and shall direct the light back into the compartment. These light strips shall fit securely into clips installed in this location. These strips shall be semi rigid. Please note that rope lighting is not an acceptable alternative to this requirement.

Bid complies _____

Bid does not comply _____

ROLLED ICC MARKER LIGHTS

The bidder shall install LED marker/ICC lights as required by FMVSS regulations. The lights are to be a rolled design to conform to the contour of the upper roof posts of the body front and rear. The lights are to be a surface mount design. Lights that must be recessed into the body are unacceptable due to the weakening of the body structure caused by cutting into the extrusions. The contour of the lights shall be such that there shall be visibility from the above as well as the front and rear of the vehicle. Exceptions to this requirement will only be allowed if ICC marker lights are included on another piece of specified equipment such as a lightbar.

Bid complies _____

Bid does not comply _____

WHELEN PFP2 DUAL PANEL STREETSIDE CENTER

A Whelen PFP2 dual panel super LED floodlight shall be installed on the streetside of the module body in the center position. The installation is to include a PBA203 semi-recess housing. This light is to operate from switches located in the front control panel as well as any other additional functionality as may be described elsewhere within this document. Light functionality is to be based on programming in the converter-added electrical system. Special wiring or add-on components shall not be used to accomplish this functionality.

Bid complies _____

Bid does not comply _____

WHELEN PFP2 DUAL PANEL CURBSIDE CENTER

A Whelen PFP2 dual panel super LED floodlight shall be installed on the curbside of the module body in the center position. The installation is to include a PBA203 semi-recess housing. This light is to operate from switches located in the front control panel as well as any other additional functionality as may be described elsewhere within this document. Light functionality is to be based on programming in the converter-added electrical system. Special wiring or add-on components shall not be used to accomplish this functionality.

Bid complies _____

Bid does not comply _____

Install (2) Whelen PFP1 light over each Rear Loading Door.

Bid complies _____

Bid does not comply _____

Provide (1) Whelen PFP1 Scene Light in the Front upper center of the body.

Bid complies _____

Bid does not comply _____

TAIL LIGHTS, M6 SERIES, VERTICAL MOUNT

Whelen M6 series LED stop/tail, turn, and reverse lights are to be installed on the rear of the vehicle. The lights are to be located vertically in the rear body panels, above the rear riser, to either side of the rear access doors.

Bid complies _____

Bid does not comply _____

The vertical Tail Lights are to be installed in a Cast Products (3) Light Housing

ELECTRICAL

12V PREWIRES - Provide (4) additional 12-volt electric in the following locations:

(2) Cab Console: (1) for Knox Box Key Box installation, (1) for install of customer supplied radio chargers

(2) Rear Linen Cabinet: (1) below the Electrical Compartment, (1) Knox med Vault at foot of bench.

Wire battery hot

USB – (4) on the console in the cab of Chassis location decided at Pre-Construction.

USB style outlets are to be installed and wired battery hot.

Bid complies _____

Bid does not comply _____

ELECTRIC DOOR LOCKS COMPARTMENT EXTERIOR

Power activated door locks shall be installed on compartment doors. Locks shall be activated by switches located at each patient area access door, or via other means as may be specified within this document. Locks may be overridden by the door key.

Bid complies _____

Bid does not comply _____

ELECTRIC DOOR LOCKS ACCESS DOORS INTERIOR

Power activated door locks shall be installed on patient area access doors. Locks shall be activated by switches located at each patient area access door. Locks may be overridden by a manual slide lever or by the door key.

Bid complies _____

Bid does not comply _____

ELECTRIC DOOR LOCKS WIRED TO OEM SWITCHES

The converter-added power door locks are to be wired through the OEM chassis door lock switches.

Bid complies _____

Bid does not comply _____

ELECTRIC DOOR LOCKS CONCEALED IN GRILLE

A concealed weatherproof switch shall be installed in the chassis grille to operate the specified power door locks. The switch shall be wired to unlock only.

Bid complies _____

Bid does not comply _____

ELECTRICAL SYSTEM

The electrical control system must meet all current ambulance design standards to include, KKK 1822, NFPA 1917, CASS and AMD. A system is desired that is easy to use, simple in design and allows electrical problem diagnosis and repair time to be minimized. The electrical system must be thoroughly engineered and manufactured to

allow simple personnel operation. Finally, the system must be designed so that the probability of experiencing dead batteries, shorted electrical components and engaging in lengthy troubleshooting procedures will be reduced. In some cases, the electrical output provided by the chassis charging system can be marginal and under certain circumstances the electrical load can exceed the alternator output. In addition, some electrical systems have not provided proper circuit protection and at times have not provided adequate wiring for the load. To address the above objectives, the following minimum electrical system design is required:

Chassis Charging Enhancement

The basic design for the chassis electrical output system must include equipment that provides adequate electrical needs to operate the vehicle's electrical components. In addition, a system is desired that continually monitors the chassis voltage and amperage outputs. The end result of the desired electrical output system is longer battery life, less down time associated with charging system repairs, and the fulfillment of each and every emergency response.

Bid complies _____

Bid does not comply _____

Battery Activation

Switching for battery power to the ambulance systems, either On or Off, shall be furnished as outlined elsewhere within this document. The battery switch shall not disconnect power to the OEM chassis systems.

Automatic Throttle Advance

In order to reduce the number of component parts and unnecessary throttle linkages, the factory electronic throttle control shall be utilized to activate the throttle advance system. The controls shall require that the chassis be placed in Park or Neutral with the Module Disconnect switch in the On position and the Park Brake engaged before activation of the throttle advance. A digital display warning on the driver console, accompanied by an audible tone, must instruct the driver to Set Park Brake or Release Park Brake to engage or disengage the automatic throttle control.

Bid complies _____

Bid does not comply _____

Automatic Load Management

In order to ensure that onboard personnel attention is focused on patient care rather than being occupied with monitoring vehicle systems, an automatic load management system is required. The bidder must provide a system that continually monitors the vehicles charging system while it is sitting on scene. The system design shall have the ability to automatically shut down not less than ten pre-programmed electrical circuits to prevent a deficit charging condition while the vehicle is sitting at idle. The system shall be programmed to constantly scan the electrical system. If a deficit charging condition continues for more than one minute, a pre-programmed circuit shall shut down, correspondingly reducing the electrical draw. If the deficit condition continues, a second circuit shall automatically shut down. This process shall continue to repeat at one-minute intervals until at least ten circuits are shut down with corresponding load reductions.

Bid complies _____

Bid does not comply _____

In the event any circuits are being controlled (disabled) by the load management system, the driver must be informed. A digital display warning shall appear on the driver information panel indicating Load Management Active.

Bid complies _____

Bid does not comply _____

Load management systems must be programmed through a microprocessor-based logic and memory system rather than a series of mechanical relays. Systems that require manual activation of Load Management will not be acceptable. Once the deficit condition ceases to exist, the system must be capable of restarting any disabled circuit without any action required by the driver.

Bid complies _____

Bid does not comply _____

The bidder is required to furnish a system that permits the end user to determine, prior to production, the order of priority for shedding loads. Although the entire system must function automatically, it must also be designed so that it can be set by the end user to a mode for restocking, training, or maintenance convenience. The System Off setting shall default to 'on' with system power rest.

Bid complies _____

Bid does not comply _____

Low Amperage Switching

Electrical devices that are not activated automatically shall be controlled from either the cab or patient area control panels through the use of manual low amperage switches in conjunction with a programmed touch screen. Switches that are rocker style will not be acceptable due to their tendency to degrade and fail in continued field use. To eliminate loose or poor contacts, it is unacceptable to have soldered or terminal type connections for the switches. The switches must be integral to the panels.

Bid complies _____

Bid does not comply _____

Switch Indicators

All manually activated switches on the panels described below shall be programmed to change color when the circuit is active. The switch lighting must be LED.

Bid complies _____

Bid does not comply _____

Switch Panel Design

Both the driver and the patient area switch panels must be designed so they can be easily decontaminated. The panels must be sealed so as to prevent contaminants from leaching into crevices, underneath switches, etc. There shall be no printing or labeling on the face of the overlay material. The panels must be cleanable using any commercially available spray type cleaner or disinfectant commonly used by EMS systems with no damage created by fluids leaking through openings onto the circuit boards or switch contacts.

Bid complies _____

Bid does not comply _____

Switch Panel Backlighting

The switch panels shall include, on each panel, an individual intensity control as well as a backlighting color selection feature. Switch panel lighting that operates at the same level as the cab instrument panel or that illuminates both the front and rear panels at the same intensity will not be considered. The bidder must provide totally independent control for each panel. The panel perimeter lighting must have multiple color selections available with front and rear panels separately controlled.

Bid complies _____

Bid does not comply _____

Cab Control Switching and Display

Switch Activation:

The cab control center shall include 8 critical buttons installed in protective enclosure with proper ventilation to maintain temperature. The following minimum circuits shall be provided on the switch panel:

- Module Disconnect
- Emergency Master
- Emergency
- Interior Lights
- Exterior Lights
- Home
- Apps
- Options

The following displays will appear on the Home screen of the cab console:

- Voltage (to the nearest 0.10 volt)
- Amperage (to the nearest amp)
- Outside Temperature
- Inside Patient Area Temperature
- Access or Compartment Door Open Warning Message and Display
- Electrical System Diagnostics
- 24 Hour Clock
- HVAC
- Emergency Brake Warning
- Accent Lighting and Backlighting Controls
- Patient Warning
- Back up Camera

Bid complies _____

Bid does not comply _____

Door Open Indicator

The front panel shall include a door open warning indicator. This shall consist of a graphical diagram of the vehicle on the touch screen. A door open will appear on the screen allowing the operator to pinpoint which door is open. An audible alarm must sound if a door is left open and the vehicle is placed into gear. Under no circumstances will flashing lights or stand-alone audible indicators suffice to meet this requirement.

Bid complies _____

Bid does not comply _____

Patient Area Control Switching and Display

The patient area control center shall match the front control panel specified above in all but function. The rear panel is to specifically control patient care functions and shall include 8 mission critical buttons installed in a backlight aluminum control panel. The following circuits shall be controlled through these switches:

- Oxygen
- Vacuum
- Interior lighting
- Climate Control
- Scene/Load lights
- Ventilation
- "Home"

Additional functionality shall be available via the graphical touch screen. At a minimum the following information must be available and controllable through the rear panel in addition to functionality listed above:

- Patient Status
- Stop Clock
- Oxygen Line Pressure
- Oxygen Cylinder Pressure
- Patient Area Temperature
- Thermostat Setting
- Oxygen Warning
- Bid complies _____
- Bid does not comply _____

Compartment and Entry Door Switches

Exterior circuits such as loading lights, side scene lights and compartment lights shall be activated by low amperage, non-mechanical switches. The type of switch desired is a magnetic sensitive switch that activates the circuit when the magnetic plane is broken. Plunger type switches are not acceptable because of their short useful life and higher amperage requirements.

- Bid complies _____
- Bid does not comply _____

'Door Open' Indicator

A vehicle graphic door open warning indicator, with accompanying audible chime shall be installed in both the cab and patient area. A digital display shall appear on both consoles indicating which specific door has been left ajar.

Under no circumstances will red flashing lights or systems that do not specifically pinpoint a specific open door be acceptable.

Central Electrical Distribution

The electrical system smart modules shall be independent and include their own logic. They must include RAM memory to execute commands without having to rely on a central CPU. The system must not be centered around the use of a logic-controlled microprocessor built into a single circuit board. This logic control system is required to maximize reliability of the electrical system and to minimize downtime. It must be provided in order to match the type of control system used in the chassis and to prevent communication problems caused when dissimilar systems are employed. The design of the system must totally separate chassis operation from converter feature installations. In the unlikely event of converter component failure, the chassis must still remain operable.

The computer based electrical system must utilize components similar in design to the computerized chassis functions such as the OEM cruise control system, fuel feed system, transmission control system and braking system.

Bid complies _____

Bid does not comply _____

Multiplexed Electrical Communications System

Because most chassis manufacturers have chosen multiplex electrical communication technology to operate the chassis system, this purchaser requires the same technology for the converter-added systems. A standardized electrical control and wiring system is required. "Off the shelf" third party systems are not desired. Standard systems controlled by outside vendors and modified for a specific vehicle or manufacturer will not be acceptable due to the unpredictability for future parts or service. Switch panels or modules that are not standard in design and are not interchangeable from one unit to another will not be considered. Since solid state logic-controlled technology is commonly available and not proprietary to any one manufacturer and has been proven to be more reliable with greater benefits, a blanket exception or clarification regarding the electrical specification is not acceptable and will be cause for automatic rejection of the bid.

Bid complies _____

Bid does not comply _____

In addition, the system will consist of a series of input / output control modules to manage and feed information and to control the various circuits required by this specification. Each smart module must have 32 power and 2 ground outputs and 12 inputs. The smart modules shall have a chassis gateway interface with a 120 amp max output. Universal Mate-N-Lock connectors shall be used for all load connections. Mini-Universal Mate-N-Lock connectors shall be used for data transmission lines. Under no circumstances will systems be acceptable that utilize screw type terminals or card connectors due to their susceptibility to working loose due to vibration normally encountered on a vehicle.

Bid complies _____

Bid does not comply _____

Under no circumstances may the operation of the central processing unit or the input or output modules be based upon the operation of mechanical relays. Relay based systems require higher amperage operating current and rely on mechanical contact points designed to degrade with use, creating short duty cycles for the vehicle electrical system. Relay based systems, due to those limited short duty cycles, will not be acceptable for the requirements of this specification.

Bid complies _____

Bid does not comply _____

Unit Function

The electrical control system shall be fully programmable and shall control a number of functions. The minimum functions to be controlled are as follows:

- Load Management
- Sequenced Start Circuit Activation
- Electrical System Diagnostics
- Climate Control Heat/AC operation
- Intensity Controls for Patient Dome Lights
- Oxygen Warning System (high and low pressure)
- All Warning Light Flashers and Flash Patterns
- Patient Status System
- Electrical Diagnostics

Bid complies _____

Bid does not comply _____

Unit Function Options

The electrical control system shall be capable of adding the following options:

- Up to four cameras
- Emergency GPS
- Pulse width Modulation
- USB port for field upgradability
- Seat belt monitor display
- Remote system activation from a mobile device
- Record ambulance PM schedule

The electrical control system shall include the ability to manage user defined maintenance issues. It shall also allow for the notification of critical issues such as oil changes and tire rotations.

Bid complies _____

Bid does not comply _____

Circuit Protection

Each converter added electrical circuit must have circuit protection for both over current limit and over temperature condition. The circuit protection shall be provided by solid-state circuit breaker/switching devices (MOSFETS) for both the input and output wire feeds for each circuit. The circuit protection shall require no user intervention such as that required for circuit breakers or fuses. The system shall be able to indicate an output fault warning.

Bid complies _____

Bid does not comply _____

No Prototype Systems

The converter-added electrical system represents the most important system in the design of this ambulance. Reliability and proven performance are essential. Therefore, the bidder must be able to demonstrate that they have at least ten years' experience with solid state logic-controlled electrical systems installed in emergency vehicles. Further, the bidder must be capable of all programming required by the system without turning to outside vendors. This includes custom-programmed items as may be delineated in this specification.

Bid complies _____

Bid does not comply _____

The bidder may be required to demonstrate an in production or in-service vehicle in order to guarantee compliance with this requirement. Prototype or first of a kind electrical systems are not acceptable. The purchaser may require the bidder to furnish specific references to further document compliance.

Bid complies _____

Bid does not comply _____

Wiring

The following minimum wiring standards are required:

Identification

By color, by itemized number, and by actual circuit name, stamped every 4-6"

Size:

Size will vary and will be dependent upon each wire being able to carry a minimum of 125% of the actual circuit load.

Protection of Wiring:

All wiring must be run in breakaway wire loom for protection against abrasion or chafing.

Bid complies _____

Bid does not comply _____

Diagnostics

The electrical system must have built-in capability to self-check each converter-added circuit and identify a short or open circuit automatically. The system must be designed to continuously monitor all outputs and to notify the operator of any faults via a message on the front control screen.

Bid complies _____

Bid does not comply _____

Support Data

Being able to service the electrical system should the need arise is of the utmost importance. To reduce the down time associated with servicing, the following information shall be provided at the time of delivery:

1. Electrical system operating instructions
2. Patient area heating/AC schematic and parts list
3. Oxygen and vacuum system schematic, parts list and leak check instructions
4. Battery and alternator schematic and system description
5. Radio communications installation instructions
6. Wire description list for converter added wiring
7. Individual schematics for all converter added electrical circuits

Bid complies _____

Bid does not comply _____

INPOWER BATTERY SWITCH, WITH WAKE BUTTON - 10 min.

Install an InPower electronic battery switch. Switch is to activate battery power through the vehicle ignition and is to include an automatic shutdown timer to deactivate battery power after the ignition is turned off.

Bid complies _____

Bid does not comply _____

VANNER CHARGER/STATUS PANEL

A Vanner charger/status shall be provided and installed in the manufacturer's standard location.

Bid complies _____

Bid does not comply _____

1050CUL-DC, AUTO SWITCHED

The vehicle converter shall furnish and install a Vanner 20-1050CUL-DC inverter/charger. The inverter shall be located the vehicle's designated electrical compartment, and shall power each onboard electrical outlet. The unit is to activate automatically anytime the engine is running. The "Charger" portion of this unit shall be wired to the vehicle shoreline circuit.

Bid complies _____

Bid does not comply _____

110V INTERIOR OUTLET - 1 in the Inhalation Area, 1 on the Streetside Wall aft of the CPR Seat, 1 on the Curbside Wall at the head of the Squad Bench

110V lighted interior outlets are to be installed as noted.

Bid complies _____

Bid does not comply _____

INTERIOR 12VDC OUTLETS: CL TYPE/USB - (2) In Inhalation Area, (2) In Upper Front Wall Cabinet, (1) bench wall below angled housing

12V combination cigarette/USB style outlets are installed as noted and wired battery hot.

Bid complies _____

Bid does not comply _____

SHORELINE 1, 20A SUPER AUTO EJECT, RED

A Kussmaul 20A Super Auto Eject shoreline inlet shall be installed on the vehicle above the streetside (driver's side) intermediate compartment. The inlet shall be protected from the elements with a hinged cover. The shoreline system shall include a 20-amp inline GFI breaker. The shoreline cover shall be red.

Bid complies _____

Bid does not comply _____

PD BOX LOCATION, LEFT HAND SIDE, SS INT. COMPARTMENT

The onboard power distribution panel is to be located on the left wall of the streetside (driver's side) intermediate compartment. The panel is to be covered with an aluminum closeout to match the finish in that compartment. Access to the panel shall be provided by removing the closeout.

Bid complies _____

Bid does not comply _____

KUSSMAUL EZ PLATE, 20A SUPER AUTO EJECT #1

The shoreline specified above as 'Shoreline #1' shall be installed as noted using a Kussmaul EZ Plate.

Bid complies _____

Bid does not comply _____

STEP WELL LIGHT VISTA LED

The side access door stepwell is to include a 10.5" LED light on the left-hand side. The light is to illuminate with the opening of the side access door through the use of a magnetic door switch. Mechanical door switches will not be accepted.

Bid complies _____

Bid does not comply _____

NFPA CAB WARNING LIGHT

Install a red LED warning light within sight of the driver. Wire to flash when the ignition is 'on' with the emergency brake disengaged and a door is open. This is in addition to the standard operation.

Bid complies _____

Bid does not comply _____

(7) PATIENT CEILING DOME LIGHTS WHELEN LED

Whelen 80C0EHCR LED dome lights shall be installed in the patient area ceiling. Patient area lighting is to meet applicable standards for patient area illumination. The lights will have a high/low feature with the switch in the rear control panel.

Bid complies _____

Bid does not comply _____

3 SWITCH PANEL CURBSIDE LEFT STEPWELL WALL

The manufacturer shall install a 3-switch electrical control as noted above. The panel is to match the style of switches used on the main control panels.

Bid complies _____

Bid does not comply _____

TIMER, DOME LIGHTS. STEPWELL

An electronic momentary touch timer switch shall be installed in the specified switch panel on the side of the bolster facing the side stepwell. The switch will enable time limited operation of the specified dome lights with the battery switch in the 'off' position. Set timer to 15 minutes. Mechanical timers are strictly prohibited.

Bid complies _____

Bid does not comply _____

3 SWITCH PANEL INHALATION PANEL

The manufacturer shall install a 3-switch electrical control as noted above. The panel is to match the style of switches used on the main control panels.

Bid complies _____

Bid does not comply _____

SWITCH, DOME LIGHTS, INHALATION PANEL,

An electronic momentary switch shall be installed in the specified 3-switch panel on the inhalation panel. The switch will activate the specified dome lights with the battery switch in the 'off' position. The lights are to remain 'on' until the switch is depressed again.

Bid complies _____

Bid does not comply _____

SWITCH, O2, INHALATION PANEL

An electronic momentary switch shall be installed in the specified 3-switch panel on the inhalation panel. The switch will activate the onboard electronic oxygen system. A second depression of this switch shall deactivate the system.

Bid complies _____

Bid does not comply _____

SWITCH, SUCTION, INHALATION PANEL

An electronic momentary switch shall be installed in the specified 3-switch panel on the inhalation panel. The switch will activate the onboard aspirator system. A second depression of this switch shall deactivate the system.

Bid complies _____

Bid does not comply _____

3 SWITCH PANEL REAR DOOR PANEL

The manufacturer shall install a 3-switch electrical control as noted above. The panel is to match the style of switches used on the main control panels.

Bid complies _____

Bid does not comply _____

TIMER, DOME LIGHTS, REAR DOOR PANEL

An electronic momentary touch timer switch shall be installed in the specified switch panel on the right rear door panel. The switch will enable time limited operation of the specified dome lights with the battery switch in the 'off' position. Set timer to 15 minutes. Mechanical timers are strictly prohibited.

Bid complies _____

Bid does not comply _____

DUMP OVERRIDE, i4G, REAR DOOR PANEL

A switch shall be programmed into the specified switch panel on the interior panel of the right rear entry door to override the automatic dump feature for the rear suspension. Activation of this switch will prevent the automatic raising and lowering of the rear suspension that occurs with the opening of the left rear entry door.

Bid complies _____

Bid does not comply _____

SECURITY IDLE SYSTEM, F SERIES

A solid-state security idling system shall be provided on the vehicle. With the system in the 'on' position, via a switch in the main control panel, the driver may remove the vehicle keys with the engine running. If the vehicle is placed in gear or the brake pedal is depressed, without returning the keys to the ignition, the system will sound the vehicle horn, flash the marker lights and automatically shut down the engine to prevent vehicle theft. The desired system must be integrated into the vehicles programmed electrical system and must include a visual communication to the operator that the system is 'on'. Aftermarket add-on units are not acceptable.

Bid complies _____

Bid does not comply _____

BACKUP ALARM RESET, MOMENTARY

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

Bid complies _____

Bid does not comply _____

CAMERA LOCATION: OVER REAR DOORS, EXTERIOR

Bid complies _____

Bid does not comply _____

PROGRAMMING

The window level M9 lights will operate with the vehicle brake lights.

Bid complies _____

Bid does not comply _____

LIGHT PROGRAMMING: SIDE REAR SCENE

The rear scene lights on either side of the vehicle shall be programmed to be activated when the vehicle is placed into reverse gear. This is in addition to the other modes of operation as described elsewhere within this document. This feature shall be attained through the programming of the onboard electrical system. Systems that require additional wiring in order to provide this feature are not acceptable.

Bid complies _____

Bid does not comply _____

LIGHT PROGRAMMING: RIGHT SIDE SCENE

The curb side scene lighting shall be programmed to be activated when the patient compartment side access door is opened. This is in addition to the other modes of operation as described elsewhere within this document. This feature shall be attained through the programming of the onboard electrical system. Systems that require additional wiring in order to provide this feature are not acceptable.

Bid complies _____

Bid does not comply _____

LIGHT PROGRAMMING: LOAD LIGHT

The load lighting on the rear of the vehicle shall be programmed to be activated when the vehicle is placed into reverse gear. This is in addition to the other modes of operation as described elsewhere within this document. This feature shall be attained through the programming of the onboard electrical system. Systems that require additional wiring in order to provide this feature are not acceptable.

Bid complies _____

Bid does not comply _____

WHITE LIGHT CUTOFF SWITCH

A switch shall be installed in the front control panel that will deactivate all forward-facing white flashing lights.

Bid complies _____

Bid does not comply _____

PROGRAMMING: AUDIBLE LOW VOLTAGE ALARM

An audible alarm shall be programmed to warn the operator should the vehicle's voltage drop below 11.8 volts for 120 seconds. This function is to operate through the onboard converter-install electrical system. Add-on components will not be accepted.

Bid complies _____

Bid does not comply _____

LIGHT PROGRAMMING: PARK BRAKE

When the vehicle is placed into 'Park' or 'Neutral' with the "Module Disconnect" switch 'On', then an audible alarm, accompanied by a visual readout on the cab console digital display, shall warn the vehicle operator to engage the emergency brake. Likewise, when the vehicle is placed into gear, then the same alarm will sound with a visual display warning the operator to disengage the emergency brake.

Bid complies _____

Bid does not comply _____

HVAC**COOLTECH I, F SERIES**

A condenser shall be recessed into the roof and plumbed to the specified A/C system. The unit must be installed in a position to not interfere with the front wall lighting or the height of the vehicle. Underbody condenser designs and condensers mounted to the face of the body in any way, are not acceptable.

The external condenser shall be capable of producing a minimum of 100,000 btu's of cooling capacity.

The condenser shall have a minimum of four flat mounted smart fans with a minimum flat surface area of 825 square inches. The smart condenser system shall activate fans one at a time based on system demand. The system shall reduce and optimize condenser AMP draw while reducing wear and tear on alternators and batteries. The 100,000 BTU's of added capacity will also reduce high head load on compressors while ensuring best performance in high temp and high humidity climates. This will ultimately

increase the life of the unit.

The Condenser design shall offer protection in harsh climates from salt and other chemicals used to melt snow and ice. The unit shall have consistent performance due to reduced impact from mud, dirt, rocks, tar and other road debris. The unit shall have easy access for maintenance and service. The condenser mount shall be easily accessible and allow for easy cleaning.

Bid complies _____

Bid does not comply _____

12V HVAC, ATTENDANT'S SEAT

A ProAir 12V heat/AC system with brushless motor shall be installed beneath the attendant's seat. The unit shall be housed in a crash tested vented seat base. Air intake shall be through the seat base with output located over the head of the attendant's seat to create a circular uniform airflow throughout the patient compartment. The mounting plate for the attendant's seat shall be hinged with two bolts securing it in place. Access to the unit for maintenance shall be attained by flipping the attendant's seat up.

Alternate designs will be not accepted.

The BTU and CFM ratings on the evaporator shall be as follows:

Heat: 65,000BTU

A/C: 32,000BTU

CFM: 650 CFM

Units providing for lower ratings will not be accepted.

Bid complies _____

Bid does not comply _____

PERKO POWER VENT

A chrome plated Perko power vent shall be installed on the module body side. The vent shall provide for the removal of air from within the patient area. The intake for this vent shall be in the patient area ceiling and must have a polished chrome finish. This vent shall be wired through a switch located in the rear control panel. This vent shall also be capable of being manually closed from within the patient area.

Bid complies _____

Bid does not comply _____

PERKO STATIC VENT

A chrome plated Perko static vent shall be installed on the module body side. The vent shall provide for passive air intake into the patient area. The intake for this vent shall be in the patient area ceiling and must have a polished chrome finish. This vent shall also be capable of being manually closed from within the patient area.

Bid complies _____

Bid does not comply _____

RADIO

ANTENNA COAX 1 - Start: Cab Console, End: Front Center of Mod Roof

An RG 58U coax shall be installed so that the ambulance conversion need not be disassembled for installation at a later date. The termination points are noted above.

Bid complies _____

Bid does not comply _____

ANTENNA COAX 2 - Start: Inhalation Wall, End: Center of Mod Roof

A second RG 58U coax shall be installed so that the ambulance conversion need not be disassembled for installation at a later date. The termination points are noted above.

Bid complies _____

Bid does not comply _____

CONSOLE, SCORPION, W/MAP STORAGE, F SERIES

An aluminum console shall be installed in the cab. The console shall be installed at floor level and shall allow space for siren and radio head installation. The rear section of the console will have three storage sections for maps, books etc. The console shall be covered with black polyurethane elastomeric coating. The top of the console shall be on a slant and shall house the emergency control panel and display. Under no circumstances shall the console interfere with the OEM vehicle controls or gauges, nor shall the control panel be installed in such a manner as to interfere with either the OEM vehicle controls, gauges, or the driver's line of vision.

Bid complies _____

Bid does not comply _____

Install custom fabricated padded arm rests on the console. Locate (1) on each side.

Bid complies _____

Bid does not comply _____

CUP HOLDERS, 2-TIER

Two (2) dual tier style cupholders shall be installed in the front console with easy access from both the driver's and the passenger's seats.

Bid complies _____

Bid does not comply _____

POWER TERMINAL, SWITCHED, INSIDE CONSOLE

POWER TERMINAL, SWITCHED, INHALATION PANEL

Bid complies _____

Bid does not comply _____

OXYGEN

O2 MOUNT, VERT TRACK FOR QRM-V

Vertical track for mounting of the specified QRM-V O2 bottle mount shall be welded on the back wall of the streetside forward compartment in the right-hand corner. The bracket is to be set up for an 'M' or "H" sized cylinder. Methods of attachment other than welding will not be accepted. Method of bottle bracket installation must meet all applicable standards.

Bid complies _____

Bid does not comply _____

O2 BOTTLE, BRACKET QRM-V

A Zico QRM-V oxygen cylinder bracket shall be installed in the streetside forward compartment and set up for an 'M' or "H" Oxygen Cylinder.

Bid complies _____

Bid does not comply _____

O2 OUTLET, OHIO MEDICAL - 1 In Inhalation Panel, 1 Ceiling over head of cot & 1 in Angled Curbside Console

Install O2 outlets per instructions above. Outlets to be Ohio Medical style.

Bid complies _____

Bid does not comply _____

OXYGEN WRENCH

A cylinder wrench shall be installed inside the oxygen compartment. The wrench shall be installed in such a way as it will not move or rattle. The wrench shall be chained to the compartment so that it cannot be removed, however, the chain or cable used must not interfere with the operation of the wrench.

Bid complies _____

Bid does not comply _____

VACUUM OUTLET, OHIO MEDICAL - 1 In Inhalation Area

A single vacuum panel shall be installed in the inhalation area. The outlet shall be Ohio Medical style and shall be connected to the onboard vacuum pump.

Bid complies _____

Bid does not comply _____

ASPIRATOR, RICO 4S-4X, INHALATION AREA

The manufacturer shall furnish and install a Rico 4S-4X suction system. The aspirator shall be accessible for use from the inhalation area per the attached prints and plumbed to the specified pump.

Bid complies _____

Bid does not comply _____

VACUUM PUMP CAPL #D34 SE (P282)

The aspirator system shall be operated through a CAPL #D34 SE (P282) 12V vacuum pump that is located inside an exterior compartment. The pump shall be activated by a switch on the inhalation area electrical control panel.

Bid complies _____

Bid does not comply _____

D MT: DBL, upper BKT Under Bench Foot LOC 1

Install a red/white L.E.D. light strips (2) on the upper curbside entry door inner panels (1 per door). Installation will be near flush with the inner door panels. The light strips shall flash when the doors are open, and the red flashing light circuit is activated.

CERTIFICATIONS

CAAS CERTIFICATION LABEL

The vehicle shall have weight/payload, electrical load, and the current CAAS certification stickers installed in the O2 compartment. Failure to provide these certification labels will be cause for rejection of the completed vehicle. Labels that are found to be falsified will also be cause for rejection of the completed vehicle. The purchaser reserves the right to request documentation showing that all required testing has been completed at the time of the bid opening. Failure to provide this documentation, if requested, will result in the bid being rejected without further consideration.

Bid complies _____

Bid does not comply _____

CHANGE NOTICE 10 CERTIFICATION

The finished vehicle shall be certified to comply with Change Notice 10 requirements.

Bid complies _____

Bid does not comply _____

Options

The following items are department options and shall be priced separate.

1. Stainless upper body trim plates.
2. Whelen PFP-2 rear scene lights in lieu of PFP-1
3. Line-X all exterior compartment floors.
4. Two(2) am-fm speakers in patient compartment.
5. Zico oxygen lift system.
6. Delete Driver side wheel well compartment with slide out tray.
7. Graphics to match existing Edgewood apparatus.
8. Change Stainless-Steel counter top on Curbside Cabinet at the head of bench to Gray Granite to match the counter tops Fore and aft of CPR seat.
9. 12v refrigerator in bottom of linen cabinet.
10. Vinyl seats in the chassis.
11. Final Inspection at the company facility for 3 representatives from Edgewood Fire/EMS. If the facility is greater than 150 miles from 385 Dudley Rd. Edgewood KY 41017 the Manufacture must provide air transportation meals and lodging for the 3 representatives from Edgewood Fire/EMS.