

PLAINFIELD FIRE PROTECTION DISTRICT – NEW AMBULANCE SPECIFICATIONS

SPECIFICATIONS FOR A NEW EMERGENCY MEDICAL VEHICLE

BIDDER INSTRUCTIONS

The following specification describes a new ambulance that is expected to be acquired by this purchaser. The specification describes the needs of this purchaser as far as chassis configuration and module body design. A state-of-the-art vehicle is required. However, manufacturers that utilize prototype equipment or manufacturing processes will not be considered. The builder's manufacturing history shall be supported by documentation where applicable, and by the reference section within this specification. The benchmark for the initial configuration of this ambulance shall be the current KKK Federal Specification for Ambulances certification. However, most requirements in this specification exceed the federal specifications because of the specific needs of this purchaser.

Please note that the following specifications represent minimum general terms or requirements. While it is not the intent of this purchaser to preclude any qualified bidder from submitting a proposal, it must be clear that any bidder deviating in any substantial manner from these specifications will be rejected as being non-compliant.

Finally, manufacturers or distributors for manufacturers submitting bids shall include the following information with their proposal:

MINIMUM REQUIRED STANDARDS

The highest degree of quality, both in the materials and in the building processes, is required for the emergency medical vehicle being proposed. At a minimum the manufacturer being proposed must meet all current mandated ambulance design standards in effect at the date of the proposal submission. All current Federal Motor Vehicle Safety Standards (FMVSS) must be met, as well as all current Federal Ambulance Design specifications.

The bidder shall state the date of certification for the current KKK certification.

KKK-A-1822: _____

PROPOSAL COMPLETION PROCESS

Various areas in the following specifications require a response from the bidder. In order to aid in the evaluation process all responses must be consistent and, most importantly, legible. Bids that are submitted with hand-stamped responses shall be automatically rejected as being non-compliant.

Does the bidder understand this requirement?

Yes_____ No_____ Initial: _____

SINGLE SOURCE MANUFACTURER

To simplify warranty coverage and to assure a consistent level of quality throughout the vehicle, a manufacturer is desired that manufactures the major components for the ambulance (excluding the chassis). Major components are defined as the module body, the interior cabinets, and the converter-added electrical system. This purchaser understands that manufacturers may purchase some elements, such as switches, boards, etc. with which to manufacture a system.

Further, this specification requires the vehicle manufacturer to own the design of, as well as the rights to, the onboard converter-added electrical system. Generic aftermarket systems that are manufactured by an outside company and installed by the vehicle converter are not acceptable.

These requirements are addressed elsewhere within this specification where the specific defined items are located. Manufacturers who outsource any of the above-referenced components shall be considered non-responsive and will be rejected.

Bidder states that the represented vehicle builder manufactures all of the major components as defined above:

Yes_____ No_____ Initial: _____

Bidder states that the represented vehicle builder owns the design of the converter-added electrical system, as well as all rights to that system and any software that may be required:

Yes_____ No_____ Initial: _____

Component manufacturer (by company name):

Modular Body: _____

Interior Cabinets: _____

Electrical Wiring System: _____

QUOTATION

The overall quotation shall include a firm price for a vehicle meeting these specifications. The length of time that the price will be held shall be clearly stated in the quotation. The quotation shall include a specific delivery window based on the number of calendar days following the award of the contract. The model year of both the chassis and the conversion shall be clearly stated in the contract.

WARRANTY

The proposal shall include all warranties that are required in the following detailed specification. Lifetime warranties will not be accepted because of their unclear nature of duration. All warranties must have specific time durations and shall define warranties on specific components. The minimum acceptable warranty periods are noted below. In the blank lines the bidder shall note the terms of the warranties that apply to the manufacturer being proposed.

MODULAR BODY STRUCTURAL WARRANTY: 30 years/Unlimited Miles

Proposed warranty term: ____years/____Miles

Note: The structural warranty, as noted in the structural section of this specification, will include the module doors, continued module body door alignment, and all interior cabinet construction.

Does the structural warranty proposed comply with the above-stated terms and conditions? Yes_____ No_____

ELECTRICAL WARRANTY: 7 years/100,000 Miles

Proposed warranty term: ____year(s), ____Miles

CONVERSION WARRANTY: 2 Years/24,000 Miles

Proposed warranty term: ____year(s), ____Miles

PAINT WARRANTY: 7 Years/84,000 Miles

Proposed warranty term: ____year(s), ____Miles

The following schedule shall apply in regard to any claims submitted for paint under this warranty:

0-4 years = 100% / 5 years = 50% / 6 years = 35% / 7 years = 20%

Proposed warranty term: ____year(s), ____Miles

(No paint vendor warranties will be accepted)

For verification of the completed warranty terms stated above the bidder must include printed manufacturer's warranty certificates that meet or exceed the minimum required periods stated above.

Are the manufacturers warranties included? Yes_____ No_____

Warranties shall be transferable for their duration. All warranties shall be from the manufacturer as opposed to a distributor or service center. This is necessary for the protection of the purchaser, and to guarantee a certain known level of service and warranty. If, however, the bidder feels that it is necessary to modify the manufacturers warranties, then the bidder shall state why this modification is necessary.

In addition, the bidder shall provide a full descriptive warranty certificate describing the warranty modification and the fact that it takes specific precedence over the warranty offered by the manufacturer. If no such certificate is provided, then the modified warranty shall be considered invalid and the manufacturer's warranty shall remain in force. If a warranty modification is proposed through either a distributor or service center, then complete financial statements for that business covering the past five (5) years MUST BE SUBMITTED with the bid. If the manufacturer states that no party is permitted to modify its warranty, then any warranty modification provided by the bidder, despite being in writing, shall automatically be rejected.

Does the bidder conform to the above-written section? Yes_____ No_____

In order to simplify the evaluation process the following questions must be answered and this section must be initialed by the bidder.

Are the warranties transferable? Yes_____ No_____

If "No" explain. _____

Has the bidder modified the manufacturer's warranties? Yes_____ No_____

If "Yes" explain. _____

If "Yes" was chosen above, has the bidder included modified written warranties? Yes_____ No_____

If "No" explain. _____

If "Yes" was chosen above, has the bidder included financial statements, for the last five (5) years, of the warranty modifier? Yes_____ No_____

If "No" explain. _____

Bidder shall initial that this section is understood and has been answered truthfully. Initials: _____

Note: Bidders who are found to be untruthful in this, or in any other section of this bid, will have their bid automatically rejected.

SERVICE AVAILABILITY

Service will be a major factor in the award of this proposal. Convenience and experience will be determining factors in defining acceptable service. A service facility within a radius as described below will be required. Personnel performing the service shall be trained by the manufacturer with emphasis in the area of electrical service. In order to evaluate the proposed service facility, the following information shall be provided on the appropriate lines.

Radius from purchaser: Not more than _____ miles.

Facility name: _____

Address: _____

City: _____ State: _____

Contact: _____

Phone #: 1-(____)-____-_____

Number of years in business: _____

Number of employees: _____

Primary nature of business: _____

Does the dealer maintain a paint/collision repair facility on the site of the primary service facility?

Yes _____ No _____

If "No", please indicate the business name, address, and name of primary contact for the facility where warranty paint repairs will occur:

ADDITIONAL INFORMATION

1) The dealer shall provide a current copy of their dealer's license or Certificate of Authority for the State in which the unit will be operated in.

A copy of the dealer's license or Certificate of Authority has been included. Yes _____ No _____

2) The bidder shall provide a copy of the dealer's Certificate of Liability insurance coverage.

A copy of the dealer's Certificate of Liability insurance coverage has been included. Yes _____ No _____

3) Does the dealer provide loaner vehicles free of charge for repairs covered under warranty? Yes _____ No _____

ENGINEERING SUPPORT

Due to the complexity of the design of the vehicle, proposals will be accepted only from manufacturers that utilize well-defined engineering techniques. Computer Aided Design (CAD) drawings of both the interior of the patient area and the overall layout of the module body will be mandatory. At a minimum these drawings shall include all exterior elevations, all interior views (4), and a plan view of the roof/ceiling. All options and elements required within these specifications shall be depicted on the prints. The purpose of this requirement is to assure this purchaser that vehicle proposals indeed meet the stated requirements as set forth in these specifications. Generic CAD drawings are not acceptable. The drawings, as submitted, shall accurately depict the exact vehicle that is being proposed. Bidders not including the required drawings will be considered non-responsive and will, therefore, be rejected.

Are the required drawings included with this bid? Yes _____ No _____

DRAWINGS

The above-referenced drawings shall be furnished in standard 8.5" x 11". Drawings that are D size may be required at pre bid. Drawings not meeting the criteria set forth in the Engineering Support section above will be considered non-responsive and will, therefore, be rejected. Likewise, bids stating that drawings "will be furnished at a later date" will be rejected on the basis of non-compliance.

Are the drawings included with this bid? Yes_____ No_____ Initial: _____

SAFETY CERTIFICATION

The verification of construction techniques used throughout the building process must be furnished by the manufacturer/bidder. The installation methods and construction techniques associated with seat belt retention, cabinet construction and installation, oxygen cylinder retention and module to chassis mounting systems must be verified through a controlled Hygee sled test that simulates an actual impact condition. This test must be performed, under both side and frontal impact conditions, by a testing agency that is independent of the manufacturer.

As proof of this verification process being performed, the bidder must provide the following information (leave blank if this is not a sled test being verified):

Testing Facility Name: _____

Date Tested: _____/_____/_____

'G' Force Tested To: _____G's

The bidder must perform and certify to dynamic sled or impact testing run on the ambulance body. The body tested shall include normally installed components for each of the following areas of the vehicle. The body structure and installed components shall not show evidence of structural failure or separation from its mounted position as a result of the test. All test results must be witnessed and verified by a Registered Professional Engineer.

Test Required	Date Tested	Force Applied	Signed By
1. Body to Chassis Mounting	_____	_____	_____
2. Access Door Latching	_____	_____	_____
3. Oxygen Cylinder Mount (Main)	_____	_____	_____
4. Oxygen Cylinder Mount (Portable)	_____	_____	_____
5. Attendant Seat Mount	_____	_____	_____
6. Attendant Seat Belt	_____	_____	_____
7. CPR Seat Belt	_____	_____	_____
8. Squad Bench Seat Belt	_____	_____	_____
9. Retention of Main Cabinet Wall	_____	_____	_____

Certification of Registered Professional Engineer

The completed bid must include certification, signed by a Registered Professional Engineer, attesting to compliance with this section.

Documentation Furnished with Proposal: Yes_____ No_____

Finally, a manufacturer is desired that has had an ongoing testing program. The testing, as described above, is to have been performed on a body built using the same materials and designs as those currently used by the manufacturer. Furthermore, the testing program must have been conducted on a continuous basis for a period of time not less than ten (10) years. Therefore, the bidder is required to answer the following questions and to initial the response to confirm that the question is understood and answered truthfully.

What was the date of your first test: _____ Initials _____

What was the date of the last test: _____ Initials _____

Has this specified body construction method been tested? Yes_____No_____ Initials _____

If not, what body construction method was tested? _____ Initials _____

Has the testing program been in place for a period of at least ten (10) years? Yes_____ No_____ Initials _____

If the program has not been in place for at least ten (10) years, then how long has the testing program been in place? _____ Initials _____

Note: This requirement is in addition to the current minimum KKK, NFPA 1917 or CAAS requirements. Those requirements do not suffice as a substitute for this requirement as they do not address impact crash testing. It should also be noted that neither photographs of vehicles involved in accidents nor written observations of accident damage suffice to fulfill this requirement. This requirement will be fulfilled only when testing verification, signed by an accredited independent engineer, is furnished with the bid. The testing being described takes place in a controlled environment where meaningful data can be collected and used to further the design and safety of the vehicle. Actual accidents present too many variables that hinder the collection of meaningful data. Bidders who submit photographs or written observations, from customers or manufacturers' representatives, should note that such information is considered invalid and will not be a factor in the purchase decision.

Does the bidder understand these requirements?

Yes_____ No_____ Initials: _____

If the bidder does not perform sled testing, then the bidder is asked to take exception to this requirement so that the purchaser may evaluate bids on a legitimate basis. Bidders not taking exception shall have all appropriate documentation, as described above, included with the proposal. Bidders who do not take exception, and who do not include all appropriate documentation will be considered non-responsive and will, therefore, be rejected. This also applies to any subsequent sections of this specification that require sled testing where the bid response indicates that no exception has been taken.

Does the bidder understand this requirement? Yes_____No_____ Initials: _____

Is the bidder certifying sled test compliance and KKK compliance?

Sled Testing _____ KKK compliance _____ Initials: _____

BODY INTEGRITY VERIFICATION

In addition to the testing described in the preceding section the bidder must also ensure the integrity of the patient compartment of the vehicle in the event of an accident by performing dynamic testing to demonstrate compliance to International Standard ECE R29 and SAE Standards SAE J2422 and SAE J2420 applied to the rear of the body. Testing shall involve a Dynamic Preload side impact on a 20 degree fixture at 13,000 foot lbs., a 22,000 lbs. roof load and a rear impact at 32,600 foot lbs.

Impact shall be provided by a 13,000 lbs. platen cart moving at the speeds prescribed to achieve the necessary impact energy. The impact cart shall include DAS, a propulsion system capable of ± 0.25 mph speed control, remote braking and Ethernet communication in concert with an installed barrier facility.

During the above described testing, two Hybrid III 50th percentile mannequins shall be installed, one in the standard attendant's seat, and one on the squad bench area.

Bidder will be required to demonstrate via photos or other evidence as may be approved by this agency that the mannequin restraint systems worked properly and that the mannequins remained in their original positions.

Does the bidder comply with this requirement? Yes _____ No _____ Initial: _____

Full documentation, signed by a professional engineer from the testing laboratory shall be provided with the bid proposal.

REFERENCES

The proven durability and reliability of this product is of the utmost concern. Each bidder submitting a proposal must furnish references consisting of in-service units of similar chassis make and conversion processes being proposed. All references shall include owner, address, a contact name and phone number. A minimum of **ten (10)** references shall be provided.

Does the bidder understand this requirement? Yes _____ No _____

LIABILITY

The bidder shall defend, indemnify, and save harmless the purchaser and its officials from all claims, demands, payments, suits, actions, recoveries, and judgments of every description, whether or not well founded in law, brought or recovered against it, by reason of any act or omission of said bidder, his agents or employees, in the execution of the contract or in consequence of insufficient protection or for the use of any patented invention by said bidder, and a sum sufficient to cover aforesaid claims may be retained by the purchaser from money due or to become due to the bidder under this contract, until such claims have been discharged or satisfactorily secured. Each bidder must furnish a Certificate of Insurance showing aggregate total of insurance which shall not be less than twenty-five million dollars (\$25,000,000).

Certificate of Insurance included with proposal? Yes _____ No _____

In addition, the bidder is to assume any risk of loss to the ambulance until the ambulance is delivered to this purchaser.

Does the bidder understand this requirement? Yes _____ No _____

INSPECTION

The bidder shall provide an opportunity to visit and inspect the ambulance at the manufacturer facility prior to it being delivered to the dealer. Any flight and hotel accommodations shall be covered by the bidder. The inspection visit will be for up to three (3) members of the Fire District.

Does the bidder understand this requirement? Yes _____ No _____

PAYMENT

Payment shall be made on delivery of the purchased item, or upon completion of all work contracted for (whichever occurs later) and performed to the satisfaction of the purchaser.

Does the bidder comply with this requirement? Yes _____ No _____

If "No" explain: _____

PRICE AND TAXES

All prices quoted shall be for a definite fixed price unless otherwise specified. Prices shall exclude Federal, State, and other taxes to the extent that this purchaser is exempt. All pricing shall be F.O.B.

F.O.B.: PLAINFIELD, IL

TYPES OF BID TO BE SUBMITTED

In the event that the bidder represents more than one ambulance manufacturer meeting the manufacturer requirements outlined herein, then the bidder shall only bid the highest quality vehicle that the bidder represents. Under no circumstances will multiple bids from the same bidder on different manufacturers be accepted.

Should a bidder submit two or more bids representing more than one manufacturer, then all bids submitted by that bidder will be rejected as being non-compliant with the requirements of this specification. This purchaser is seeking quality equipment. Bidders are asked to bid only the product of the highest level of quality represented by that bidder.

Is this requirement understood and met? Yes _____ No _____ Initials: _____

INFORMATION TO BE SUBMITTED WITH PROPOSAL

The information requested within this bid must be furnished in full. Any bidder not completing this proposal or not furnishing any required information will not be considered. If a bidder will not furnish a material or fabrication process exactly as described in this specification, then that difference must be designated in the list of exceptions. If a substitution is being proposed, then the bidder must note the section to which the alternative is being proposed and provide detailed information supporting the fact that the substitute is equal to or better than the item specified. If this information is not submitted with the bid, then the bid shall be rejected as being non-compliant.

Bidder added narrative describing a substitution as being a clarification, exceeding, being equal to, etc. will be thoroughly scrutinized by this purchaser. This purchaser reserves the right to require samples of any deviating material to be provided for evaluation.

Does the bidder comply with these requirements? Yes _____ No _____ Initial: _____

DIRECTIONS FOR RESPONDING TO EACH SECTION

Each individual section of the specification shall be followed by two response lines. The lines shall read as follows:

Bid complies _____

Bid does not comply _____

On the line to the right of each statement the bidder shall mark an "X" to signify the appropriate response. If a bidder is offering an alternative to the written section, then an exception must be taken for the section. The exception must

be accompanied by data supported by a registered engineer to demonstrate the equivalency of the alternate item.

The bidder shall note that the data submitted must correspond with the substitutions offered. If the data submitted does not cover all substitutions offered, then the bid shall be rejected as being non-compliant.

Does the bidder understand this requirement? Yes____No____Initial: _____

EXCEPTIONS TO SPECIFICATION

Exceptions to these specifications shall be noted below. All exceptions taken shall be recorded per the guidelines defined above. Each exception shall be noted by page number and item header. If additional space is required for exceptions, then the bidder shall use additional paper as necessary, however the same format shall be used.

Page #:_____ Header:_____

Exception:_____

Page #:_____ Header:_____

Exception:_____

Page #:_____ Header:_____

Exception:_____

Page #:_____ Header:_____

Exception:_____

Page #:_____ Header:_____

Exception:_____

CHASSIS, 2028 FORD F-550 4X4, 193, GAS

The vehicle converter shall supply a 2028 model year Ford F-550 4x4 cab/chassis with a 193" wheelbase (108" cab-to-axle dimension) as gas engine. The chassis shall include Ford's Ambulance Prep Package (47A). Due to production delays, the department understands that the exact model year cannot be guaranteed.

NOTE: All bidders must provide a detailed chassis specification showing all option codes for the proposed chassis. NO EXCEPTIONS.

Bid complies _____

Bid does not comply _____

ENGINE AND RELATED EQUIPMENT

-7.3-liter gasoline engine (99N)

-Engine block heater

-40 gallon fuel tank mounted between the frame rails aft of the rear axle

Bid complies _____

Bid does not comply _____

TRANSMISSION:

-Automatic. TorqShift electronic 10-speed Select Shift with overdrive (44G)

-Transmission oil cooler

Bid complies _____

Bid does not comply _____

REAR AXLE:

-Ratio: 4.88:1 limited slip (X8L)

Bid complies _____

Bid does not comply _____

OVERALL WEIGHT RATINGS

-GVW: 18,000 lbs.

-Front Springs: 7,000 lbs.

-Rear Springs: 12,000 lbs. (replaced with Liquid Spring suspension specified elsewhere)

-Stabilizer Bar: Front and rear

Bid complies _____

Bid does not comply _____

TIRES

-Quantity of seven (7) tires with spare shipped loose

-Tire size to be 225/70R19.5 Load Range 'G'

-Include (4) traction tires on rear and (2) All-position tires on front (TGM)

-Aluminum wheels

-Tire pressure monitoring system

Bid complies _____

Bid does not comply _____

BRAKES

-Front and Rear: Four wheel disc with anti-lock

-Power Assist: Hydro Boost

-Parking Brake: Foot operated, hand release

Bid complies _____

Bid does not comply _____

INTERIOR APPOINTMENT STANDARDS

-Power steering

-Tilt/telescoping steering with factory speed control

-Dual padded sun visors

-Power door locks

-Power windows

-PowerScope trailer tow mirrors (54F)

-Heat/Air conditioning

-O.E.M. cloth-covered seats

-Rubber floor covering

-Driver and passenger frontal and side curtain airbags

-An AM/FM stereo/MP3 player and SYNC 4 system

-Factory gauges for oil pressure, fuel capacity, and water temperature

The converter-added digital display shall provide both ammeter and voltmeter.

Bid complies _____

Bid does not comply _____

ADDITIONAL APPOINTMENT STANDARDS

- XLT trim package
- Chrome front bumper and grille surround
- 4.2" productivity screen in IP cluster
- Interval wipers
- LED ICC lights
- Halogen jewel effect headlights
- Daytime running lights
- Sound reduction package
- Integrated auxiliary idle control
- Auxiliary heat/AC connections
- Front license plate bracket
- Two front tow hooks
- SOS Post Crash Alert System
- Perimeter anti-theft alarm
- Remote keyless entry

Bid complies _____

Bid does not comply _____

BATTERIES

The vehicle shall be equipped with two (2) batteries located in the OEM location under the chassis hood.

Bid complies _____

Bid does not comply _____

ALTERNATORS

Dual O.E.M. Motorcraft alternators shall be installed by the chassis manufacturer. These alternators shall be internally regulated and shall provide a total of 410-amps.

Bid complies _____

Bid does not comply _____

WARRANTY

The chassis manufacturer's standard vehicle warranty policies shall apply.

Bid complies _____

Bid does not comply _____

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 _____

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. Mudflaps are to be sized appropriately for the chassis selected so as not to drag the ground.

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: EMB.W/STAR PUNCH, F SERIES

Embossed 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 and shall include 'star punch' perforations along the stepping surface to enhance foot gripping and drainage.

Bid complies _____

Bid does not comply _____

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 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 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 _____

APPLY RUST PROOFING TO REAR BUMPER MOUNTING COMPONENTS.

Apply rust proofing to all exposed steel mounting components for the rear bumper. This coating is an aerosol spray-on undercoating that's black in color.

Bid complies _____

Bid does not comply _____

LIQUID SPRING SUSPENSION, F 550

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: 91"

-Width: 96.25"

-Length: 173"

(Interior)

-Height: 72"

-Aisle 48"

-Length: 169"

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 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 manufacturer's 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 at a minimum 12" centers for adequate load support.

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.

Bid complies _____

Bid does not comply _____

EXTERIOR BODY PANELS

The materials selected for the body skin have been chosen because of this vehicles 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" composite floor panel shall be installed prior to installation of the vinyl floor covering. This panel must be hydrophobic so as to resist mildew and degradation. It shall also utilize Royal Watson surfaces featuring BioStat technology which prohibits bacterial or fungal growth over the life of the product. The material is to be 100% recyclable and CA Prop 65 compliant as well as FMVSS 302 compliant. The material manufacturer must have tested the material including ASTM D 3040-3 point bend and 25#slug 8 and 24 drop test. The subfloor must have been tested and certified by a third party for compliance to AMD 020 Floor Distributed Load Test. 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 manufacturer's 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 panel, 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 or 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:

1. 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.
2. 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.
3. The entire exterior handle assembly shall be Tri/Mark Series 2200 cast metal that is chrome plated and buffed to a high luster.
4. All doors shall have an exterior key lock.
5. 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.
6. Exterior double door compartments shall include two exterior latching devices, one on each door.
7. 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 _____

BODY LENGTH MODIFICATION

Increase length to 176".

Bid complies _____
Bid does not comply _____

REAR WARNING LIGHT ALIGNMENT

Align the rear face upper outboard M9 Red flashers with the lights at window level.

Bid complies _____
Bid does not comply _____

CRASH BARRIER SAFETY CONFIGURATION

In order to provide a fully welded stable crash barrier at the head of the squad bench, the vehicle shall be built with the side access door located at the forward most part of the curbside of the vehicle. The cabinet normally located in that position shall be relocated to the head of the squad bench. The compartment is to include LED strip lighting meeting the requirements for all exterior compartments.

Bid complies _____
Bid does not comply _____

CRASH BARRIER CONFIGURATION NOTES

Actual Size: 31.5"W x 58.56"H x 21.36"D

Clear Opening: 28.87"W x 47.44"H

Note: Squad bench length will be less than 72"

Include (2) adjustable shelves

Include a stainless-steel sill plate with sweep out aluminum floor with DA finish.

Bid complies _____
Bid does not comply _____

HEADROOM, 74"

The interior headroom of the finished patient area shall be 74".

Bid complies _____
Bid does not comply _____

EMBOSSSED DIAMOND PLATE AT SIDE ENTRY DOOR

The side entry door stepwell is to be fabricated from embossed aluminum diamond treadplate.

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 _____

ENHANCED INSULATION PACKAGE

R15 Kraft insulation is to be installed in the module body walls in addition to the manufacturer's standard insulation package.

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 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 _____

ELECTRONIC PRIVACY WINDOW FOR REAR ENTRY DOORS

The patient area rear access doors shall include a fixed windows with liquid crystal privacy control. When privacy is needed, a switch shall be activated to turn the windows solid so they cannot be seen through even at a very close distance. The windows shall return to clear with a second touch of the switch. Additional programming settings shall default the window settings to opaque with the battery switch off, and transparent when the battery switch is turned on. The switch shall be labeled "PRIVACY" and shall be the same type of switch as described in the electrical section of this specification.

Bid complies _____
Bid does not comply _____

MIRROR WINDOW, SLIDING FOR SIDE ENTRY DOOR

The side entry door shall have a sliding mirror privacy window. The window shall measure 16.5"h x 17"w. 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, windows that rely on films, 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 removable 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 substructure 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 Gs to verify the integrity of the mounting system in the event of a serious accident. No exceptions to this requirement are permissible.

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, STAINLESS, STD, CS 6" DROP SKIRT

A polished stainless steel fender flare shall be installed above the curbside (passenger's side) rear wheel well opening. The mounting of the flare shall provide for no contact between the stainless steel fender, fasteners, and the aluminum body skin. This is done to eliminate any contact between dissimilar metals and the electrolysis that may result. The fender shall be designed specifically for the specified 6" drop skirt. Designs requiring multiple pieces, or that do not adequately cover the drop skirt portion of the body, will not be considered.

Bid complies _____
Bid does not comply _____

FENDERS, STAINLESS, STD, SS 6" DROP SKIRT

A polished stainless steel fender flare shall be installed above the streetside (driver's side) rear wheel well opening. The mounting of the flare shall provide for no contact between the stainless steel fender, fasteners, and the aluminum body skin. This is done to eliminate any contact between dissimilar metals and the electrolysis that may result. The fender shall be designed specifically for the specified 6" drop skirt. Designs requiring multiple pieces, or that do not adequately cover the drop skirt portion of the body, will not be considered.

Bid complies _____
Bid does not comply _____

RUB RAIL AND FENDER CONFIGURATION

Vehicle includes a 6" streetside and curbside drop skirt. Install fenders for a 3" drop skirt on both sides and lengthen the rub rails so they extend below the fenders forward of the rear wheels.

Bid complies _____
Bid does not comply _____

C-CHANNEL RUB RAILS

C-Channel style 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. Rubber rub rails are not acceptable to this purchaser.

Bid complies _____
Bid does not comply _____

EXTENDED DIAMOND PLATE CORNER GUARDS

Polished aluminum diamond plate corner guards shall be installed on the lower corner posts of the module body. The front guards shall be extended and shall terminate at the bottom of the specified paint stripe/paint break.

Bid complies _____
Bid does not comply _____

FRONT CORNER GUARD HEIGHT NOTE

Front corner guards to be 36"H.

Bid complies _____
Bid does not comply _____

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, CENTER OF RISER

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

Bid complies _____

Bid does not comply _____

COMPARTMENTATION**STREETSIDE FORWARD COMPARTMENT – 24.25"W X 88.13"H X 20.36"D**

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. Clear openings should be 18.74"W and 87.16" H.

Bid complies _____

Bid does not comply _____

SWEEP-OUT FLOOR CONFIGURATION

All sweep-out floors shall be fabricated from flat aluminum with a D/A finish.

Bid complies _____

Bid does not comply _____

COMPARTMENT LINE-X NOTE

Do not coat floor.

Bid complies _____

Bid does not comply _____

SS FORWARD COMPT. FLAT ALUMINUM

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

Bid complies _____

Bid does not comply _____

LINED COMPARTMENT, STREETSIDE FORWARD

A textured scratch resistant coating shall be applied to the interior of the streetside forward compartment. The material required will be Line-X brand in the color gray.

Bid complies _____

Bid does not comply _____

STREETSIDE FORWARD COMPARTMENT SHELVING TO BE DIAMOND PLATE

Shelving shall be installed as noted and as depicted in the drawings. All shelving is to be fabricated from diamond plate aluminum. 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.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF STREETSIDE FRONT - RIGHT SIDE OF DIVIDER JUST ABOVE O2 DOOR

Shelving shall be installed as noted and as depicted in the drawings. 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, STREETSIDE FRONT - 13.5" From Right Wall

A 16" deep vertical divider shall be installed in the streetside forward 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 _____

LINED DIVIDER, STREETSIDE FORWARD - 13.5" From Right Wall

A textured scratch resistant coating shall be applied to the specified divider in the streetside forward compartment. The material required will be Line-X brand in the color gray.

Bid complies _____

Bid does not comply _____

ROK BACKBOARD STRAP STREETSIDE FRONT - Left Side of Divider - (1) 25" and (1) 50" From Floor

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, 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 _____

SILL PLATES, STREETSIDE FRONT

A stainless steel sill plate shall be installed on the streetside forward compartment for protection against scuffs and scratches.

Bid complies _____

Bid does not comply _____

STREETSIDE INTERMEDIATE COMPARTMENT – 55.50"W X 47.50"H X 20.36"D

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. The compartment is to be full available height to the bottom of the interior countertop. Clear openings should be 51.80"W and 46.37"H.

document.

Bid complies _____

Bid does not comply _____

DIAMOND PLATE CLOSEOUT - STREETSIDE INTERMEDIATE

Install a diamond plate closeout in the upper right corner of the compartment in conjunction with the pullout drawer in the riser.

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 _____

STREETSIDE INTERMEDIATE COMPARTMENT SHELVING TO BE DIAMONDPLATE

Shelving shall be installed as noted and as depicted in the drawings. All shelving is to be fabricated from 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.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF STREETSIDE INTERMEDIATE - CENTERED IN COMPARTMENT

Shelving shall be installed as noted and as depicted in the drawings. 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 _____

CEILING MOUNTED ELECTRICAL EQUIPMENT

Miscellaneous electrical equipment, aside from the onboard electrical system itself, shall be installed on the ceiling 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 _____

EXPANDED METAL CAGE NOTES

Minimize the electrical accessories cage size to enhance available storage in compartment.

Bid complies _____
Bid does not comply _____

SWEEP OUT COMPARTMENT FLOOR SS INTERMEDIATE COMPT

The floor of the streetside intermediate 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 _____

SILL PLATES, STREETSIDE INTERMEDIATE

A stainless steel sill plate shall be installed on the streetside intermediate compartment for protection against scuffs and scratches.

Bid complies _____
Bid does not comply _____

SS WHEELWELL COMPARTMENT, DELETE

This vehicle design does not require an exterior compartment over the wheel well. Designs incorporating this compartment will not be accepted.

Bid complies _____
Bid does not comply _____

STREETSIDE REAR COMPARTMENT - 39.63"W X 59.50"H X 20.36"D

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. Clear openings should be 35.09" W and 58.37"H.

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 (Reduced Depth)

Shelving shall be installed as noted and as depicted in the drawings. 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 _____

ADJUSTABLE SHELF NOTE

Install shelf track on upper half of compartment so shelf will be adjustable in the upper half of compartment only.

Bid complies _____

Bid does not comply _____

TOOL MOUNTING PLATE; STREETSIDE REAR

An aluminum tool board shall be fabricated and installed on the back wall of the streetside rear compartment. The plate is to be .25" thick with a D/A finish. (2) aluminum 'C' channels shall be installed on the back wall on which the aluminum tool plate shall mount.

Bid complies _____

Bid does not comply _____

TOOL PLATE NOTES - STREETSIDE REAR

Locate on back compartment wall.

Size as large as possible. Requires (3) C-channels ILOS.

Bid complies _____

Bid does not comply _____

SWEEP OUT COMPARTMENT FLOOR SS REAR COMPT

The floor of the streetside 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 _____

SILL PLATES, STREETSIDE REAR

A stainless steel sill plate shall be installed on the streetside rear compartment for protection against scuffs and scratches.

Bid complies _____

Bid does not comply _____

CURBSIDE REAR COMPARTMENT - 32.70"W X 82.13"H X 21.36"D

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. Clear openings should be 28.09" W and 81.16"H.

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 as noted and per the drawings provided with this document.

Bid complies _____

Bid does not comply _____

STAIR CHAIR HOLDER

Install a fabricated slide-out stair chair holder on the right compartment wall. Holder will store a Stryker Expedition Stair Chair.

Maximum depth x 16.38"W and 41.00"H

Install a seatbelt style buckle strap to secure the stair chair.

Include Trim lock on corners of vertical base plate.

Install Dri-Decking on slide out floor.

Bid complies _____

Bid does not comply _____

CURBSIDE COMPARTMENT DEPTH INCREASE

The depth of the curbside compartments shall be increased by 1" to 21.3"D.

Bid complies _____

Bid does not comply _____

CS REAR COMPT. DIAMONDPLATE

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

Bid complies _____

Bid does not comply _____

CURBSIDE REAR COMPARTMENT SHELVING TO BE DIAMOND PLATE

Shelving shall be installed as noted and as depicted in the drawings. All shelving is to be fabricated from 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.

Bid complies _____

Bid does not comply _____

FIXED SHELF CURBSIDE REAR - (1) ABOVE TOOL BOARD

The fixed shelf shall be mounted on the left side of the divider, exact location to be determined at pre-construction meeting. 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) cast brackets, two (2) on each the right and left hand wall, allowing the shelving to remain in a fixed position within the compartment.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF CURBSIDE REAR (3) - SPACED EVENLY ABOVE THE STAIRCHAIR SLIDEOUT

Shelving shall be installed as noted. 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 - 16" FROM RIGHT COMPARTMENT 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 _____

LINED DIVIDER, CURBSIDE REAR - 16" FROM RIGHT COMPARTMENT WALL

A textured scratch resistant coating shall be applied to the specified divider in the curbside rear compartment. The material required will be Line-X brand in the color grey.

Bid complies _____

Bid does not comply _____

TOOL MOUNTING PLATE; CURBSIDE REAR

An aluminum tool board shall be fabricated and installed on the back wall of the curbside rear compartment. The plate is to be .25" thick with a D/A finish. (2) aluminum 'C' channels shall be installed on the back wall on which the aluminum tool plate shall mount.

Bid complies _____

Bid does not comply _____

TOOL PLATE NOTES - CURBSIDE REAR

Locate: Left side of divider

Size: 51" from floor

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 _____

SILL PLATES, CURBSIDE REAR

A stainless steel sill plate shall be installed on the curbside rear compartment for protection against scuffs and scratches.

Bid complies _____

Bid does not comply _____

CS INTRMDT COMPT, DELETE

This vehicle design does not require a curbside (passenger's side) intermediate exterior compartment forward of the rear compartment. Designs incorporating this compartment will not be accepted.

Bid complies _____

Bid does not comply _____

CURBSIDE FRONT COMPT DOOR DELETE

This vehicle design does not require a curbside (passenger's side) exterior compartment forward of the module entry door. Designs incorporating this compartment will not be accepted.

Bid complies _____

Bid does not comply _____

LINE-X LINER COLOR, BLACK

The specified Line-X coating used as noted above is to be grey in color.

Bid complies _____

Bid does not comply _____

DRI DECK, BLACK

Black Dri-Deck material shall be cut to size and installed on the bottoms of all exterior compartments and shelves. This shall include tapered edge trim pieces where applicable.

Bid complies _____

Bid does not comply _____

PAINT AND GRAPHICS**CHASSIS PAINT: WHITE**

The OEM chassis manufacturer's bright white paint shall be ordered on the chassis. The bidder is not to repaint the chassis.

Bid complies _____

Bid does not comply _____

MODULE PAINT, WHITE

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 insure that no areas are missed with the DA process mentioned above. 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 PPG 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 manufacturer's 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 an 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 is to be white.

Bid complies _____

Bid does not comply _____

DIAMONDGRADE CHEVRON, FULL REAR Fluorescent Yellow Green, Red

Diamondgrade chevron striping shall be installed on the rear body face inboard of the body corner posts and below the upper drip rail. Striping to cover the access doors as well.

Bid complies _____

Bid does not comply _____

CHEVRON NOTES - REAR FACE AND ENTRY DOOR PANELS

Outline entire perimeter of Rear Face and Entry Door (center and lowers) chevrons with a .50" Red, non-reflective vinyl pinstripe to match Red chevrons as closely as possible.

Bid complies _____

Bid does not comply _____

DIAMONDGRADE CHEVRON, ACCESS DOOR PANELS Fluorescent Yellow Green, Red

Diamondgrade chevron striping shall be installed on the bottom sections of all inner door panel entry doors.

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, DIAMOND GRADE, CENTER PANEL CHEVRONS Fluorescent Yellow Green, Red

Diamond grade chevrons are to be installed on the center sections of all inner door panel entry doors.

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, MIDNIGHT PEARL Fore of CPR seat AND Crash barrier counter

The patient area countertop material shall be solid surface. The countertop material shall incorporate a 1" radiused retention lip around the perimeter. The retention lips shall include a coved surface where the lips meet the counter surface. 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 Midnight Pearl. 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, CG TECH 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 painted aluminum material in a color matching that required within this document.

Bid complies _____

Bid does not comply _____

INHALATION PANEL NOTES

Inhalation panel to be constructed as a flat panel in lieu of angled.

Padding and beading to match selected upholstery color.

Bid complies _____

Bid does not comply _____

INHALATION PANEL CUTOUT

Install a cut out for a dealer installed Medvault at the rear end of the Inhalation panel.

Type: Mini Medvault

Size: 7.75"H x10"W x6.75"D

Bid complies _____

Bid does not comply _____

POLAR WHITE CG TECH INTERIOR COLOR

The interior walls and door panels in the patient area are to be finished with a non-laminate material possessing the following properties:

- Finger print resistant
- Resistant to yellowing
- Temperature resistant between -40 degrees and 212 degrees F.
- Resistant to oils, greases, weak acids and salts
- Verified tensile strength of 34mpa

No wood or wood-based products are to be used within the specified material.

The material shall be Polar White in color.

Bid complies _____

Bid does not comply _____

LONDECK RIDGELINE SMOKEY BLACK (NO TOP SEAL)

The patient area floor is to be covered in Lonseal Londeck Ridgeline #801 Smokey Black (No Top Seal).

Bid complies _____

Bid does not comply _____

MIRROR FINISH STAINLESS STEEL RISERS

The interior risers shall be covered with a single sheet of mirror finish stainless steel. The stainless material shall be installed flush with the riser and trimmed at the top on both sides so as to cover the edges. The bottom of the material shall be formed at a 90 degree angle so that, upon installation, the 4" rolled floor will seal against the stainless steel. Designs that do not include this stainless steel riser will not be considered as they will not be capable of protecting the riser from damage due to cot movement, Etc. In addition, stainless steel risers that have exposed edges, or that are more than one piece, will not be acceptable. Drawer and tip-out faces within the risers will be constructed with brushed aluminum laminate to mimic the appearance of the stainless as close as possible.

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 _____

STAINLESS STEEL LOWER DOOR PANEL NOTE

The lower door panels shall extend upward to adjoin the center panels containing the door lock bezel. No CG-Tech shall be exposed.

Bid complies _____

Bid does not comply _____

POLAR WHITE 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 Polar White. The paint shall be treated with an antimicrobial agent.

Bid complies _____

Bid does not comply _____

CABINET PAINT TO BE SMOOTH

The specified cabinet paint is to have a smooth finish.

Bid complies _____

Bid does not comply _____

GUNMETAL VACU-FORM VINYL COLOR

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

Bid complies _____

Bid does not comply _____

VACUFORMED UPHOLSTERY

All seat cushions, including head and back cushions, are to be Vacuum formed style with a .5" overhang. All closeouts and upholstered trim pieces are to be covered with matching material. Head, backrest and HOPS cushions are to be made and attached per standard. Bucket seats to be specified separately.

Bid complies _____

Bid does not comply _____

FIXED SEATBASE, 2" EXTENSION

An attendant's seat base shall be fabricated from aluminum and shall be installed in a position near the head of the cot. The base shall house the vehicle's heat/AC unit as described in that section of this specification. The material shall be perforated to promote airflow to the unit. The entire seating assembly, as described here, shall be subjected to a Hygee sled test of at least 30 G's to test the structural integrity of the design in order to assure a certain level of safety for the vehicle occupants. The top plate shall extend 2" from the base and the selected seat shall be positioned to gain that 2" of space between the seat and the countertop in lieu of being centered on the base.

Bid complies _____

Bid does not comply _____

STANDARD FIXED SEATBASE

An attendant's seat base shall be fabricated from aluminum and shall be installed in a position at the head of the cot. The base shall house the vehicle's heat/AC unit as described in that section of this specification. The material shall be perforated to promote airflow to the unit. The entire seating assembly, as described here, shall be subjected to a Hygee sled test of at least 30 G's to test the structural integrity of the design in order to assure a certain level of safety for the vehicle occupants. Swivel or aftermarket seat bases are not substitutes for this requirement.

Bid complies _____

Bid does not comply _____

SEAT BASE NOTE

Install Heat/AC grille by tapping seat base and securing with machine screws and nylock nuts where possible.

Bid complies _____

Bid does not comply _____

USSC CHILD, BLACK 4-POINT, GUNMETAL

Install a vacu-formed Gunmetal USSC high back bucket seat with integral child safety seat and Black 4-point seat belt with safety vest. The seat shall be adjustable front to rear and is to be mounted at the head of the cot.

Bid complies _____

Bid does not comply _____

OCCUPANT RESTRAINT. HEAD OF BENCH, BLACK

A 4-point seatbelt, black in color, shall be provided and installed at the head of bench position. The belt shall include a 4-retractor system to allow all four belts to be fully retractable. The design must allow mobility up to and including a standing, or near standing position. Belts that do not allow such movement while in use will not be accepted. The belt shall also include a quick one click design for ease of use. Installation hardware and wall anchorages are to have been tested and certified to meet all applicable requirements relative to occupant restraints. No prototype systems will be accepted. If available by the manufacturer, please include an airbag system that can help to reduce any head and neck injuries as a result of an accident.

Bid complies _____

Bid does not comply _____

OCCUPANT RESTRAINT. FOOT OF BENCH, BLACK

A 4-point seatbelt, black in color, shall be provided and installed at the head of bench position. The belt shall include a 4-retractor system to allow all four belts to be fully retractable. The design must allow mobility up to and including a standing, or near standing position. Belts that do not allow such movement while in use will not be accepted. The belt shall also include a quick one click design for ease of use. Installation hardware and wall anchorages are to have been tested and certified to meet all applicable requirements relative to occupant restraints. No prototype systems will be accepted. If available by the manufacturer, please include an airbag system that can help to reduce any head and neck injuries as a result of an accident.

Bid complies _____

Bid does not comply _____

INFANT SEAT ANCHORAGE

Infant seat anchorage points, meeting all applicable FMVSS requirements, shall be provided and installed at the foot of the squad bench. This installation must include all necessary reinforcements and hardware and shall be engineered and certified specifically for this purpose.

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 thoroughly 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 insure 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. No prototype systems will be acceptable.

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. No prototype systems will be acceptable.

Bid complies _____
Bid does not comply _____

AIRBAG SENSOR

The airbag sensor used in conjunction with the specified airbag system is to be installed in the cab behind the chassis seating positions.

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 rollover collision. In addition to being field proven, the system shall have been developed using laboratory-controlled rollover 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. No prototype systems will be acceptable.

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. No exceptions to this requirement are permissible.

Bid complies _____
Bid does not comply _____

IV HANGER, CP WITH RUBBER ARM COT KNEE

A Cast Products recessed swing-down IV hanger shall be installed above the primary cot position near the patient's knee 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

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: 8FT YELLOW ANTI-MIC CENTER

An 8' long grab rail shall be installed centered 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 yellow in color and 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, 18" YELLOW, BOLSTER, ANGLED WITH STEPS

Install a 18" 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 yellow in color and 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 _____

VERT GRAB RAIL, 2 FT. YELLOW ANTI-MIC REAR DOORS

Install a 2' long grab rail just inside and to the right of the rear entry doors. Install vertically to assist entry and exit through the rear access doors. 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 cabinets and riser. The rail shall attach through aluminum substructure at the attachment point 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 yellow in color and 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: YELLOW 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 yellow in color and 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. Headliner that is padded or upholstered in any way will not be considered, nor will any headliner made of wood or wood products due to the lower degree of durability and the risk of contamination inherent in such materials. 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 _____

FIRE EXTINGUISHERS: 5LB ABC SHIP LOOSE

A new 5# ABC fire extinguisher, with mounting brackets, shall be supplied on the completed vehicle. Unit is to be shipped loose to be installed at a later date.

Bid complies _____

Bid does not comply _____

FIRE EXTINGUISHERS: 5LB ABC SHIP LOOSE

A second new 5# ABC fire extinguisher, with mounting brackets, shall be supplied on the completed vehicle. Unit is to be shipped loose to be installed at a later date.

Bid complies _____

Bid does not comply _____

GLOVE STORAGE ABOVE REAR ENTRY DOORS

Glove storage for (2) glove boxes shall be provided in the closeout above the rear entry doors. Include hinge-up padded doors with oval access openings and ball-catch latches.

Glove Box Size: 10.5"W X 5.5"H X 4"D

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 _____

ADJUSTABLE SHELF MIDDLE 1 LINEN CLOSET

The middle 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 _____

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 LOWER DOOR

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

Bid complies _____

Bid does not comply _____

SOUTHCO LOCKING LATCH, LINEN CABINET DOOR TOP

The upper linen cabinet door is to utilize a Southco Stainless Steel flush-style locking latch. The latch shall feature a recessed pull ring style handle. The latch shall be both positive (mechanical latching) and passive (latches automatically).

Bid complies _____

Bid does not comply _____

SOUTHCO LATCH FOR LINEN CABINET DOOR, LOWER

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).

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 _____

OCCUPANT RESTRAINT. CPR SEAT, BLACK

A 4-point seatbelt, black in color, shall be provided and installed at the head of bench position. The belt shall include a 4-retractor system to allow all four belts to be fully retractable. The design must allow mobility up to and including a standing, or near standing position. Belts that do not allow such movement while in use will not be accepted. The belt shall also include a quick one click design for ease of use. Installation hardware and wall anchorages are to have been tested and certified to meet all applicable requirements relative to occupant restraints. No prototype systems will be accepted. If available by the manufacturer, please include an airbag system that can help to reduce any head and neck injuries as a result of an accident.

Bid complies _____

Bid does not comply _____

CPR SEAT BACK CUSHION, GUNMETAL

The specified CPR seating position(s) are to include a contoured backrest incorporating the specified seatbelt harness system. The vinyl color is to be Gunmetal #8539.

Bid complies _____

Bid does not comply _____

MAIN WALL CABINET SHELF NOTE

Maximize the depth of all shelves behind lift-up frames.

Bid complies _____

Bid does not comply _____

CPR SEAT, 28" WIDTH

The CPR seat shall measure 28" wide.

Bid complies _____

Bid does not comply _____

CPR SEAT SCAB COVERING

Install matching flooring material on the scab area behind the CPR seat to match what is provided on the bench area scab.

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.

Bid complies _____

Bid does not comply _____

ANGLED CABINET NOTE

Delete shelf in forward angled cabinet.

Bid complies _____

Bid does not comply _____

STRAIGHT UPPER CABINET, AFT OF CPR SEAT - 20.75"H X 39.5"W X 16"D

The upper cabinet, aft of the CPR seat, is to be straight across with no angle back toward the CPR seat position.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELVING, REAR CPR CABINET

The cabinet above and aft of the CPR seat 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 _____

ACRYLIC SLIDING, REAR CPR CABINET

The cabinet notated above is to include sliding acrylic 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. Designs that do not comply with this section will not be accepted.

Bid complies _____

Bid does not comply _____

LIFT UP CABINET FRAMES, REAR CPR CABINET

The specified sliding cabinet doors on the cabinet referenced above shall feature a flip-up restocking style door frame. The frame, in which the sliding doors are installed, is to include a piano style hinge to provide a larger clear opening for ease of restocking supplies and cleaning. This feature is in addition to the normal sliding mode of operation. The door frame shall be held in the "open" position with two gas-charged cylinders, and in the down position with two sliding dead bolt type latches. The remainder of the door construction shall adhere to the appropriate section of this specification.

Bid complies _____

Bid does not comply _____

CUSTOM CABINET, Cabinet 1 Dimensions: 12.75"H x 18.75"W x 16"D - Location: Below Inhalation Counter, Forward of CPR Seat

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 _____

FLIP DOWN CABINET FRAMES INTERIOR

Install a flip-down restocking cabinet frame on cabinet noted above. Includes gas shocks and latches.

Bid complies _____

Bid does not comply _____

ACRYLIC SLIDING, Cabinet 1

The cabinet notated above is to include sliding acrylic 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. Designs that do not comply with this section will not be accepted.

Bid complies _____

Bid does not comply _____

LIFT UP CABINET FRAMES, UPPER INHALATION CABINET

The specified sliding cabinet doors on the cabinet referenced above shall feature a flip-up restocking style door frame. The frame, in which the sliding doors are installed, is to include a piano style hinge to provide a larger clear opening for ease of restocking supplies and cleaning. This feature is in addition to the normal sliding mode of operation. The door frame shall be held in the "open" position with two gas-charged cylinders, and in the down position with two horizontal sliding dead bolt type latches. The remainder of the door construction shall adhere to the appropriate section of this specification.

Bid complies _____

Bid does not comply _____

UPPER INHALATION CABINET - 14.75"H x 60.75"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 _____

ACRYLIC SLIDING DOORS, UPPER INHALATION CAB.

The cabinet notated above is to include sliding 3/8" acrylic 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. Designs that do not comply with this section will not be accepted.

Bid complies _____

Bid does not comply _____

INTERIOR SHELVING, UPPER INHALATION CABINET

The upper inhalation cabinet, above the main action area, 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 _____

FIXED VERTICAL DIVIDER, UPPER INHALATION CABINET Centered in cabinet

A fixed position cabinet divider shall be installed as noted above. The divider is to be fabricated out of aluminum and painted to match the cabinet interior.

Bid complies _____

Bid does not comply _____

STORAGE BENEATH THE CPR SEAT

The CPR seat cushion shall be hinged upward to allow for access to the area beneath it. This area shall provide miscellaneous storage. The storage area shall be fabricated with aluminum diamond plate and shall be as large as is possible given the location of the exterior compartmentation and wheel house.

Bid complies _____

Bid does not comply _____

GAS HOLD OPEN FOR LIFT UP CPR SEAT CUSHION

A gas hold open shall be installed to keep the CPR seat cushion in the upright position when opened.

Bid complies _____

Bid does not comply _____

RECESSED PADDLE LATCH. CPR SEAT

A recessed paddle latch will be installed in the cabinet riser to secure access to the CPR seat storage area.

Bid complies _____

Bid does not comply _____

PULL-OUT DRAWER - INHALATION AREA

Install a pull-out drawer beneath the inhalation area per drawing.

Size: 18"W x 6"H x 16"D (All I.D. dimensions)

Drawer face to be CG-Tech covered solid trimmed edge construction.

Install using (3) Large slides - (2) side-mounted and (1) bottom-mounted. Secure slides with nylon insert nuts.

Include a flush pull ring latch.

All surfaces of drawer tray to be non-painted with a D/A finish.

Bid complies _____

Bid does not comply _____

CURBSIDE CABINETRY**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 _____

SHARPS/WASTE STORAGE - CRASH BARRIER COUNTERTOP

Install sharps and waste containers recessed through the bench side of the crash barrier countertop. Cut hole so container lips sit on top of counter for ease of removal.

Size for and include a #8507SA sharps container and a Rubbermaid #2953 6-Qt. waste container.

Bid complies _____

Bid does not comply _____

CRASH BARRIER DRAWER - BENCH FACING

Install a bench-facing drawer beneath the sharps/waste location of the crash barrier compartment.

Size: Max width x 5"H X 12"D (All I.D. dimensions)

Include large side mount slides and a flush pull ring latch.

All surfaces of drawer tray to be non-painted with a D/A finish.

Include a diamond plate closeout inside crash barrier.

Bid complies _____

Bid does not comply _____

CARGO NET, INTERIOR CRASH BARRIER OPENING

Install a cargo net for the crash barrier opening.

Secure with (3) Ferno buckle style straps on the upper portion.

Install standard Ancra clips on bottom portion.

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 OPEN NOTE

Install (1) gas hold open at each end of lid.

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 required 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, GUNMETAL

The specified bench seating positions are to include a contoured backrest incorporating the specified seatbelt harness system. The vinyl color is to be Gunmetal #8539.

Bid complies _____
Bid does not comply _____

BENCH CABINET, HINGED DOORS

A cabinet shall be installed at ceiling level over the full length of the squad bench. This cabinet is to be fabricated from .063" 5052-H32 welded aluminum. The interior of the cabinet shall be painted per the cabinet construction description listed elsewhere within this specification. The cabinet is to be accessed through hinged 3/8" acrylic doors that are held in the 'open' position by gas piston hold-open devices. This cabinet is to be a maximum of 9" H to allow enough clearance between the bottom of the cabinet and the top of the seat below to meet KKK-F requirements.

Bid complies _____
Bid does not comply _____

BENCH CABINET NOTES

Cabinet to be 8"D (O.D. dimension)
Include (3) Acrylic doors with gas hold opens.

Bid complies _____
Bid does not comply _____

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 _____

FIXED DIVIDER, BENCH CEILING CABINET DIVIDED INTO 3 EQUAL SECTIONS

A fixed position cabinet divider shall be installed as noted above. The divider is to be fabricated out of aluminum and painted to match the cabinet interior.

Bid complies _____
Bid does not comply _____

PASS-THROUGH ACCESS, CURBSIDE REAR

An inside/outside dual access storage area shall be provided into the curbside rear compartment. This area shall be trimmed around the opening and is to be accessible through both an exterior compartment door, and an interior cabinet door.

Bid complies _____
Bid does not comply _____

CS REAR I/O ACCESS DOOR, HINGED ACRYLIC

The compartment pass-through notated above is to include a vertically hinged door. The door is to be made of 3/8" acrylic material.

Bid complies _____
Bid does not comply _____

CS REAR I/O DOOR HINGE, PIANO STYLE

The specified curbside rear inside/outside passthrough access door for shall include a full-length piano-style hinge.

Bid complies _____
Bid does not comply _____

CS REAR I/O DOOR LATCH, SOUTHCO SS

Install a Southco stainless steel flush pull ring latch on the curbside rear inside/outside pass-through access door.

Bid complies _____
Bid does not comply _____

FRONT WALL CABINETRY**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 _____

SEMI-RECESSED AUTO PULSE POCKET IN FRONT WALL

Install a semi-recessed pocket in the front wall for Auto pulse storage. Body tubes modified. Size: 23"W x 38"H x 2"D (All I.D. dimensions)

Ship loose (2) Velcro straps with footman loops and mounting hardware.

Bid complies _____
Bid does not comply _____

SURFACE MOUNTED GLOVE STORAGE - FRONT WALL

Provide a storage cabinet for (3) glove boxes on front wall above the auto pulse pocket. Gloves to be accessed via oval cutouts in an Acrylic door hinged on top side.

Include (4) self-closing latches and a flush pull ring latch.

Glove Box Size: 10.5"H x 5.5"W x 4"D

Bid complies _____
Bid does not comply _____

COT MOUNT**STRYKER POWER LOAD PRE-WIRE ONLY Cot Type: Stryker Power Pro XT**

The manufacturer shall supply and install a pre-wire for a Stryker Power load system. 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**WHELEN PHOTOCELL LOCATED ON OR AROUND THE DRIVER SIDE "A" PILLAR IN THE CAB, PROGRAM FOR USE WITH ALL CAPABLE WARNING LIGHTS. INCLUDE AN OVERRIDE SWITCH ON THE FRONT CONTROL PANEL.**

Install a Whelen Photocell sensor located on or around the driver side "A" pillar in the cab, dim all capable warning lights to 50% when activated. Include an override switch on the front control panel.

Bid complies _____
Bid does not comply _____

TRAFFIC EMITTER 3X7 TOMAR STROBE CENTERED ON FRONT FACE WITH 3065-R-OML POWER SUPPLY.

The bidder is to supply and install a Tomar 3X7 strobe light with chrome flange, include a 3065-R-OML power supply to function as a traffic emitter. Install on the front face of the body without obstruction. Provide an activation switch in the front control panel and wire so that the unit will not operate unless the emergency lighting circuit is activated

and the vehicle is in gear.

Bid complies _____

Bid does not comply _____

WIG WAG HEADLIGHTS, F SERIES

The vehicle headlights shall alternately flash through the activation of the appropriate switch on the front control panel. This feature shall be accomplished through a solid-state flashing device that is a part of the primary electrical control system. This feature shall deactivate when the unit is in secondary mode.

Bid complies _____

Bid does not comply _____

M9, BLUE/BLEU LENS - (3) Front Face - [R][B][B][TOMAR][R][R][B], (1) Rear Face - Streetside Window Level

Whelen M9 series LED lighting shall be installed. Lighting is to be blue with blue 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. A switch shall be provided in the front control panel to change flash patterns on the specified lighting.

Bid complies _____

Bid does not comply _____

M9, RED/RED LENS - (3) Front Face - [R][B][B][TOMAR][R][R][B], (2) Rear Face - Upper Corners, (1) Rear Face - Curbside Window Level

Whelen M9 series LED lighting shall be installed. Lighting is to be red with red 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. A switch shall be provided in the front control panel to change flash patterns on the specified lighting.

Bid complies _____

Bid does not comply _____

M7 R/B SPLIT/CLEAR LENS - (2) Front Fenders - Red Forward Whelen M7 series LED lighting shall be installed as noted. Lighting is to be red/blue split 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. A switch shall be provided in the front control panel to change flash patterns on the specified lighting.

Bid complies _____

Bid does not comply _____

INTERSECTION LIGHT NOTES

Configure: Red portion forward

Install using Cast Products #LH37M705-1 and LH37M706-1 light housings.

Bid complies _____

Bid does not comply _____

M9 Amber/Amber Lens Rear Center KKK

A Whelen M9 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 an amber 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. A switch shall be provided in the front control panel to change flash patterns on the specified lighting.

Bid complies _____

Bid does not comply _____

FLASH PATTERN, 80 FPM A/B

The emergency lighting flash pattern is to be programmed to an 80FPM A/B pattern.

Bid complies _____

Bid does not comply _____

M6V SERIES RED - REAR WHEEL WELL LIGHTS

Install (2) Whelen #M6V2R Red over White LED lights with Red outer lens over warning light portion and chrome flanges.

Locate: (1) Above each rear wheel well

Program:

- In any mode, when the turn signal is activated OR put in reverse, the white portion of the light will steady-burn with the associated turn signal.

- In emergency mode, and when vehicle is in park, white portion of both lights to steady burn.

Bid complies _____

Bid does not comply _____

M9V SERIES RED - SIDE BODY WARNING LIGHTS

Install (6) Whelen #M9V2R Red over White lights with Red outer lens over warning light portion and chrome flanges.

Locate: (3) Streetside - (2) Upper outboard corners and (1) mid-body

Locate: (3) Curbside - (2) Upper outboard corners and (1) mid-body

Flash outboard lights alternately.

Flash center lights with "Action Flash 150" pattern.

Bid complies _____

Bid does not comply _____

STRIP-LITE PLUS DUO - RUB RAIL LIGHTS

Install (4) Whelen Strip-Lite Plus #PSD02FCR Red/White DUO and (2) #PSD02FCB Blue/White DUO lights with clear lenses and chrome flanges in the C-channel rub rails.

Locate: (3) Per side Red – Blue – Red on each side

In primary and secondary modes, program for alternating single flash 75 solid flash pattern.

In secondary mode, program each light to steady-burn White when a compartment door in that quadrant (including the curbside entry door) is opened.

With parking lights activated, program the red portion of each light to act as a running light. (50% intensity if possible)

Provide separate on/off switch.

Electrical connections to be as weatherproof as possible.

Bid complies _____

Bid does not comply _____

ION WIDE-ANGLE SERIES - GRILLE LIGHTS

Install (4) Whelen ION wide-angle series lights with chrome bezels on upper and lower bars of chassis grille.

- (2) Blue (#WIONSMCB)

- (2) Red (#WIONSMCR)

Configure: Red over Blue (Streetside)

Configure: Blue over Red (Curbside)

Program for "X" pattern flash.

Bid complies _____

Bid does not comply _____

MISCELLANEOUS WARNING LIGHT PROGRAMMING

Program the intersection light colors to flash alternately.

Program the (4) front face inboard lights for "X" pattern flash.

Program the (4) rear face M9 lights for "X" pattern flash.

Bid complies _____
Bid does not comply _____

PROGRAMMING - STEADY BURN OPTION

Program a switch for the Flash Pattern screen in the front control panel that will set all warning lights to "Steady Burn". Label as "Steady Burn Option".

Bid complies _____
Bid does not comply _____

M9CZ SERIES - COMBINATION WARNING/SCENE LIGHTS

Install (2) Whelen #M9CZ combination warning/scene lights. Lights to have clear lens over warning light portion and chrome flanges.

Locate: (1) #M9BCZ Blue above rear doors – Streetside

Locate: (1) #M9RCZ Red above rear doors – Curbside

Program for "X" pattern flash with the outboard M9 warning lights.

Bid complies _____
Bid does not comply _____

AUDIBLE WARNING**SIREN, FEDERAL PA300MSC SIREN 2**

The vehicle is to be equipped with a Federal PA300MSC siren installed in the front console. This is in addition to the Other siren specified.

Bid complies _____
Bid does not comply _____

SIREN, FEDERAL PF400Q

The vehicle is to be equipped with a Federal PF400Q siren installed in the front console.

Bid complies _____
Bid does not comply _____

PF400Q AMPLIFIER LOCATION

Locate the amplifier behind passenger seat.

Bid complies _____
Bid does not comply _____

SIREN, FEDERAL RUMBLER, F SERIES

The vehicle is to be equipped with a Federal Rumbler low frequency siren.

Bid complies _____
Bid does not comply _____

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 _____

SPEAKERS, DYNAMAX, IN GRILLE

Federal Dynamax siren speakers (2) shall be installed in the chassis grille. These speakers are to be wired to operate with the specified secondary 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 _____

KKK SIDE MARKER LIGHT LOCATION NOTE

Locate on rear compartment doors - same position each side.

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 wheel well 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 _____

WHELEN OS SERIES MARKER LIGHTS

Whelen OS series LED ICC marker lights are to be installed on the vehicle, front and rear, to meet DOT requirements.

Bid complies _____

Bid does not comply _____

WHELEN OS SERIES INTERIOR TURN/BRAKE INDICATOR LIGHTS

Install (1) red and (2) amber Whelen OS series lights on the interior closeout above the rear entry doors to indicate turn signal and brake light activation. Lights will be installed horizontally with the red in center and the ambers on each side of the red.

Bid complies _____

Bid does not comply _____

ARGES2 SPOT LIGHT

Install an ARGES2 spot light on the passenger fender with an ARG47BP mount.

Locate the ARGCH2 control head on front console face plate.

Bid complies _____

Bid does not comply _____

AMBER WARNING, TOP, SIDE ACCESS DOOR

A 12 LED light strip shall be installed on the upper portion of the curbside access door inner door panel. The light strip shall be amber in color. The light shall have optics integral to the lens for maximum light disbursement. When mounted the lens shall be near flush with the door panel. The light strip shall flash when the access door is open, and the emergency lighting is activated. The lens shall be designed to provide a bright and intense light from a distance. As distance is decreased the light shall become less intense, preserving night time visibility for people working near the vehicle. LED lamps shall be used due to their "cold" operating temperature, low amp requirement, and long life expectancy. The lighting is intended to provide additional warning to traffic and pedestrians of open access doors, and to provide additional safety for the crew.

Bid complies _____

Bid does not comply _____

AMBER WARNING, TOP, REAR ACCESS DOORS

12 LED light strips shall be installed on the upper portion of the rear module access door inner door panels, one (1) per door. The light strips shall be amber in color. The lights shall have optics integral to the lenses for maximum light disbursement. When mounted the lenses shall be near flush with the door panels. The light strips shall flash when the access doors are open, and the emergency lighting is activated. The lenses shall be designed to provide a bright and intense light from a distance. As distance is decreased the light shall become less intense, preserving night time visibility for people working near the vehicle. LED lamps shall be used due to their "cold" operating temperature, low amp requirement, and long-life expectancy. The lighting is intended to provide additional warning to traffic and pedestrians of open access doors, and to provide additional safety for the crew.

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. All lights are to include chrome flanges.

Bid complies _____

Bid does not comply _____

ELECTRICAL**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 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. No exceptions to these requirements will be accepted.

Bid complies _____

Bid does not comply _____

Automatic Load Management

In order to insure 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

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

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

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
- Pulse width Modulation
- USB port for field upgradability
- Seat belt monitor display

Bid complies _____

Bid does not comply _____

Circuit Protection

Each converter added electrical circuit must have circuit protection for both overcurrent 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 is 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 downtime 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

Bid complies _____

Bid does not comply _____

FORD OEM AUX 1 SWITCH

To be emergency master override switch if turned on.

Bid complies _____

Bid does not comply _____

INPOWER BATTERY SWITCH, WITH WAKE BUTTON 5 min.

Install an Inpower electronic battery switch. The 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 _____

ADDITIONAL WAKE BUTTON FOR ELECTRICAL SYSTEM REAR INHALATION PANEL

An additional wake button for the electrical system shall be installed as specified. The "Module Disconnect" circuit shall be wired to shut down when left in the 'On' position with the engine not running and the battery switch 'On.' If the shoreline is plugged in, then this feature will be disabled. Toggling the Module Disconnect switch shall reset the circuit for an additional time interval. The time interval shall be adjustable through software programming.

Bid complies _____

Bid does not comply _____

LIFESINE INVERTER/CHARGER, AUTO SWITCHED

The vehicle converter shall furnish and install a Vanner #LSC12-1100 LifeSine Inverter/charger in the streetside intermediate compartment as noted. Inverter/battery status panels, if required, will be specified elsewhere within this document. The unit is to function through the vehicle ignition and is to power all 110V outlets. The charger portion shall be wired to provide power to the vehicle batteries from the specified shoreline.

Bid complies _____

Bid does not comply _____

VANNER CHARGER/STATUS PANEL

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

Bid complies _____

Bid does not comply _____

110V INTERIOR OUTLET

110V lighted interior outlets are to be installed.

(1) Rearward Inhalation Area

(1) Curbside Wall above the Crash Barrier

(1) Quad - Crash Barrier Compartment, Upper Forward Wall between the shelf tracks - Surface Mount

Bid complies _____

Bid does not comply _____

INTERIOR 12VDC OUTLETS: CL TYPE/USB-A/USB-C

12V combination cigarette style outlet with USB-A and USB-C outlets are to be installed

Wire battery hot.

(1) In Inhalation Area

(1) Curbside Wall above the Crash Barrier

Bid complies _____

Bid does not comply _____

USB-A AND USB-C OUTLET, KUSSMAUL 091- 264

A Kussmaul 091-264 USB-A/USB-C port shall be installed as noted and wired to operate through the 12V electrical system. Wire battery hot.

(1) Front Console

Bid complies _____

Bid does not comply _____

SHORELINE 1, 20A SUPER AUTO EJECT, WHITE

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 white.

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 and will include a single LED light showing that the shoreline has power.

Bid complies _____

Bid does not comply _____

EXTRA 12VDC CIRCUIT BREAKER: INTERMEDIATE SS COMPARTMENT

An extra circuit breaker shall be installed.

Bid complies _____

Bid does not comply _____

REPORT LIGHT, LED

Report lighting shall be installed above the main counter/work area. The fixture shall be 12" in length and LED. The fixture shall be controlled via a switch on the attendant control panel. This design will allow for simple "one touch" operation while still providing for flexibility in terms of lighting needs.

Bid complies _____

Bid does not comply _____

CLOCK, INTELLITEC LED: OVER REAR DOORS

Install an Intellitec Time Manager clock centered above the rear entry doors.

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 _____

2.5" CAB CEILING LIGHTS, WHITE/RED LED

One pair of LED cab ceiling lights shall be installed in the cab headliner. These lights are to feature both clear and red LEDs and can be operated via a switch mounted to the light. Light functions are to be 'OFF', 'CLEAR', and 'RED'.

Bid complies _____

Bid does not comply _____

PATIENT CEILING DOME LIGHTS WHELEN LED

Whelen 80COEHCR 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 _____

RED LED STRIP LIGHTING

Red LED strip lighting is to be installed in the patient area ceiling along the left and right sides. This lighting is to be controlled through a switch in the rear control panel.

Bid complies _____

Bid does not comply _____

3 SWITCH PANEL ON REAR ENTRY DOOR

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

Bid complies _____

Bid does not comply _____

3-POSITION SWITCH, SIDE WALL ABOVE HEAD OF BENCH

Install a 3-position remote switch panel on the curbside wall above the head of the bench (rearward of crash barrier compartment).

Functions:

- Dome Timer (Activate Bench Dome Lights Only)
- Bench Domes Hi/Low
- Oxygen

Bid complies _____

Bid does not comply _____

3-POSITION SWITCH, SIDE WALL ABOVE CRASH BARRIER COMPARTMENT

Install a 3-position remote switch panel on the curbside wall above the crash barrier counter

. Functions:

- Dome Timer (Activate Bench Dome Lights Only)
- Tactical Lights
- Privacy Windows

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 not desired.

Bid complies _____

Bid does not comply _____

DUMP OVERRIDE, 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 _____

PRIVACY WINDOW SWITCH LOCATIONS

Install privacy window switches in the following locations:

- Switch Panel above Crash Barrier Counter
- Inner Panel of Right Rear Entry Door
- Rear Control Panel

Bid complies _____

Bid does not comply _____

STREAMLIGHT PRE-WIRE LOCATION/CONFIGURATION

Install (4) 12V prewires in the following locations.

Locate: (1) Streetside REAR compartment - right rear upper corner

Locate: (1) Curbside REAR compartment - right forward upper corner of tool plate

Configuration: 12V Ignition hot AND Shoreline power

Locate: (1) Rear Inhalation panel per drawing for Medvault.

Configuration: 12V Battery hot all the time

Locate: (1) HAAS Transponder

Configuration: 12V Battery hot, 12V hot with emergency lights activated and ground. On a 2ft whip that ends under the center of the dash

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 _____

REVERSE SENSE WIRE - FRONT CONSOLE

Provide a reverse sense wire in front console. Label, coil and cap for future use.

Bid complies _____

Bid does not comply _____

CAMERA LOCATION: OVER REAR DOORS, EXTERIOR

The integrated camera system noted is to include a camera installed over the rear doors on the vehicle exterior for use in reverse.

Bid complies _____

Bid does not comply _____

BRIGADE CAMERA MONITOR

Install a Brigade VBV-770M (#4288) 7" windshield mounted monitor or current equivalent with #VBV-XM003 3-meter extension cable. Mount using a RAM-BEA 32K008 bracket. Bracket to mount to OEM mirror mount.

Bid complies _____

Bid does not comply _____

PROGRAMMING**LIGHT PROGRAMMING: SIDE REAR SCENE AND REAR WHEEL LIGHTS**

In any mode the rear scene lights and rear wheel 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.

Bid complies _____

Bid does not comply _____

ADDITIONAL SCENE LIGHT PROGRAMMING

Program the curbside and streetside scene lights to activate with the opening of any access or compartment door on that side of the vehicle.

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.

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 or when the rear doors are 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.

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 _____

SIDE MARKER LIGHT PROGRAMMING

The specified side body marker lights are to be programmed to flash with the emergency lighting. The turn signal function is to override this programming.

Bid complies _____

Bid does not comply _____

SIDE MARKER LIGHT PROGRAMMING NOTE

Lights to flash alternately with the wheel well lights.

Bid complies _____

Bid does not comply _____

MODULE DISCONNECT, DEFAULT TO "ON"

The 'Module Disconnect' function, or the activation of the converter-added electrical system, shall automatically engage with the activation of the vehicle battery switch.

Bid complies _____

Bid does not comply _____

LOW OXYGEN PRESSURE ALARM PROGRAMMING

Program the low oxygen pressure alarm to activate at 300 psi.

Bid complies _____

Bid does not comply _____

DOMELIGHT PROGRAMMING

Lights to operate at "HIGH" intensity when dome timer is manually activated. With battery switch in "OFF" position, program the dome lights to activate at "LOW" intensity when a module access door is opened. Lights to remain on for (5) minutes. Include separate activation switches for each bank of lights.

Bid complies _____

Bid does not comply _____

HVAC

A temperature control system is desired that provides quick and simple operation while maintaining a uniform temperature throughout the patient compartment. The unit itself must be located so that it is easy to access for service. This location must also be near the O.E.M. heat/AC connection points when provided so as to increase the overall efficiency of the unit. The following minimum design standards must be adhered to in order to best meet the needs of this purchaser.

System Controls

The climate control functions shall be controlled through a primary location in the inhalation panel, and through a secondary location in the cab electrical control console. The switches used for the operation of this system shall be identical to the switches described in the "Electrical" section of this specification.

Switches shall be present in the front console to select either 'Heat', 'A/C', or 'Off' functions and to select the desired temperature. Switches shall be present in the rear control panel to select either 'Heat', 'A/C', or 'Off' functions, 'Automatic' or 'Manual' mode of operation, and to select the desired temperature.

Bid complies _____

Bid does not comply _____

Thermostat

The temperature level shall be adjustable from both the front and rear electrical control panels for the 12V system.

Two switches at each location shall be used to scroll through desired temperature settings on one-degree intervals.

Once the desired temperature is set, then the system shall retain that setting regardless of the position of the battery switch. The temperature sensor for the system shall be located at the inhalation panel so as to attain a true patient compartment temperature. The temperature setting and the actual temperature reading shall be viewable from both the front or rear digital displays. This system is to be controlled through the converter-added electrical system. Under no circumstances shall household type thermostats be acceptable.

Bid complies _____

Bid does not comply _____

System Operation

The system shall allow for both automatic and manual operation. When set to the manual mode the fan speed shall be infinitely adjustable from the rear control panel for extra ventilation. When set to the automatic mode the fan speed shall be controlled by the thermostat setting. The temperature that is selected shall be continuously

maintained. When the selected temperature has been reached, then the system shall automatically cycle the fan speed down to reduce unnecessary electrical load.

Bid complies _____

Bid does not comply _____

Heater Water Control

The flow of hot water from the chassis to the converter-added heat/AC system shall be controlled by an electrically operated valve located under the hood. Water flow to the rear heater shall be activated when either the front or rear heater switch is turned to the 'On' position. It is a requirement of this specification that this type of valve be used unless the converter is supplying a self-contained heat-AC system. The term "self-contained" is defined as being a unit that does not require any water flow from the chassis. Under no circumstances will manual valves be considered. Manual valves are inconvenient and tend to leak. Any aftermarket wyes, tees, or elbows used must be stainless or aluminum. Plastic will not be accepted

Bid complies _____

Bid does not comply _____

Filtration System

A replaceable carbon filter shall be installed at the air intake area of the heat/AC system. Replacement of the filter shall be simple, and shall require very little time so as to assure that the vehicle will not have to be taken out of service. Replacement filters shall be readily available and shall be capable of being cut to the proper size to fit the vehicle.

Bid complies _____

Bid does not comply _____

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 btus 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 BTUs 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 _____

NFPA VENTS

Install (1) power intake vent on streetside upper forward corner.

Install (2) power exhaust vent - (1) each side upper rear corners.

Provide separate switch for power intake and exhaust. Exterior finish to be painted aluminum with no logo.

Vent Programming:

Program all (3) fans turn on when that button is activated but in a sub-menu have the ability to deactivate the "Intake Only Fan Off".

Bid complies _____

Bid does not comply _____

12V HVAC, ATTENDANT'S SEAT

A 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 _____

HEAT/AC PROGRAMMING

System will auto "ON" with ignition to last selected temperature setting.

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: Cab Console, 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 _____

ANTENNA COAX 3 Start: Inhalation Wall, End: Rear 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 _____

3/8" NMO MOUNT COAX 1

Bidder shall provide and install a 3/8" NMO antenna mount in conjunction with the coax specified as 'Coax #1'.

Bid complies _____

Bid does not comply _____

3/8" NMO MOUNT COAX 2

Bidder shall provide and install a 3/8" NMO antenna mount in conjunction with the coax specified as 'Coax #2'.

Bid complies _____

Bid does not comply _____

3/8" NMO MOUNT COAX 3

Bidder shall provide and install a 3/8" NMO antenna mount in conjunction with the coax specified as 'Coax #3'.

Bid complies _____

Bid does not comply _____

PULL WIRE 1 Start: Cab Console, End: Inhalation Wall

A pull wire shall be installed to aid radio cable installation and prevent removal of interior panels once the vehicle has been completed. Wire shall terminate as noted above.

Bid complies _____

Bid does not comply _____

RADIO PULL WIRE CONDUIT

A conduit shall be installed for the specified radio cable pull wire. The conduit shall be a 2" smooth wall continuous type.

Bid complies _____

Bid does not comply _____

RADIO HEAD PRE-CUT: REAR Motorola APX 4500

A pre-cut hole shall be provided in the rear inhalation panel for the specified radio head. The radio head will be customer-supplied.

Bid complies _____

Bid does not comply _____

CONSOLE, LINE-X, 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 _____

ADDITIONAL CONSOLE EXTENSION DESIGN NOTES

Recess a customer-supplied Knox KeySecure 5.0 shell on right vertical wall of console. Include (2) equally sized top panels forward of cup holders. Include a storage pocket between cup holders.

Remaining dimension rear of cupholders to be as large as possible and include:

- Map book storage area (Open - no dividers)
- Minimum of 9" of open storage to rear of map book storage area side-mount wrench will be utilized.

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 _____

RADIO POWER/GROUND TERMINALS

Install three 6-gauge cables with 50-amp capacity to positive and ground studs for radio power. Wire one constant hot, one ignition hot, and one ground.

Locate: (1) Set inside front console

Locate: (1) Set behind inhalation panel

Bid complies _____

Bid does not comply _____

OXYGEN

Reliability, safety, and ease of operation are essential characteristics of the onboard oxygen and suction systems. System design must meet the following minimum guidelines. Bidders are asked to respond to each section appropriately per the bid requirements and to explain any variations to these requirements.

Switching

The rear switch panel shall contain two switches labeled "OXYGEN" and "VACUUM". Each of these switches shall electrically activate those respective systems. That activation shall be instantaneous. Systems that are not instantaneously responsive to their activation will not be considered.

Bid complies _____

Bid does not comply _____

System Design

A single piece manifold assembly shall serve as the basis for the oxygen delivery system. The manifold assembly shall incorporate ports for installation of O2 lines to all specified outlets, an electrically activated oxygen delivery solenoid, and a manual bypass valve. The assembly shall be installed behind the inhalation panel and shall be easily accessible.

Bid complies _____

Bid does not comply _____

Electrical Oxygen Activation

The switch, located on the rear control panel and labeled "OXYGEN", shall activate the solenoid. This design will allow for the instantaneous flow of oxygen while eliminating the need to manually turn a valve to initiate oxygen flow.

Bid complies _____

Bid does not comply _____

Manual Bypass

The oxygen solenoid shall be equipped with a manual bypass valve. Located behind the inhalation panel, the valve shall be easily accessible so that, in the unlikely event of an electrical failure, administration of oxygen may continue.

Bid complies _____

Bid does not comply _____

System Regulation

The patient area shall be free of high-pressure oxygen lines. To accomplish this the vehicle converter shall install a KKK approved regulator at the oxygen cylinder. The regulator shall include an integral dial type gauge to monitor the cylinder contents. A single low-pressure line shall be installed from the regulator to the O2 manifold assembly. This method shall insure that all high pressure is maintained in an exterior compartment away from the interior patient area.

Bid complies _____

Bid does not comply _____

Oxygen Lines

The O2 line connecting the regulator to the manifold assembly shall be rated at 200 psi working pressure and 1,250 psi burst pressure. The line shall be UL approved. There shall be NO connections installed in the line between the regulator and manifold assembly as these create a possibility for leakage. All connections shall be DISS style and shall be specific to the gas being supplied.

Bid complies _____

Bid does not comply _____

Line Protection

The O2 line shall be protected from crimping through the installation of a flexible spring guard on the portion of the line in the cylinder storage compartment.

Bid complies _____

Bid does not comply _____

System Monitoring

The condition of the oxygen system shall be continually monitored and reported to the vehicle operators through the vehicle's onboard electrical system. Readouts containing the information listed below shall be available primarily at the patient area control console. The secondary location for availability of this information shall be the cab console. The information available shall include the following:

-Cylinder Pressure

-Line Pressure

In addition, this system shall be designed to offer a warning, both audible and visual, if the condition of the oxygen system falls outside of the following pre-programmed parameters:

-Low Cylinder Pressure (500 psi or below)

-Low Line Pressure (40 psi or below)

-High Line Pressure (75 psi or above)

These oxygen system warnings shall immediately notify the personnel of a problem, again, via a readout and audible alarm. The system shall require the personnel to acknowledge receipt of the information.

Bid complies _____

Bid does not comply _____

Preliminary System Testing

The oxygen system shall be tested prior to installation in the vehicle. This test shall be performed by the vehicle manufacturer and shall subject the system to three times (3X) the working pressure. This test shall be conducted for a minimum of four (4) hours.

Bid complies _____

Bid does not comply _____

Final System Testing

The completed system shall be tested again once it is installed in the vehicle. This test shall be performed at working pressure for a minimum of four (4) hours. After the system has passed the inspection process it shall be capped and tagged per Federal KKK specifications.

Bid complies _____

Bid does not comply _____

Oxygen Cylinder

The oxygen and suction systems shall be complete upon delivery with the exception of the O2 cylinder. The cylinder shall be supplied and installed by the purchaser after delivery of the vehicle has taken place.

Bid complies _____

Bid does not comply _____

O2 MOUNT, VERTICAL 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 '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, CYLINDER BRACKET: ZICO QRM-V

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

Bid complies _____
Bid does not comply _____

OXYGEN ACCESS DOOR

Provide access to the oxygen cylinder valve through the wall as depicted on the drawings. The oxygen access door shall be hinged so that it swings into the patient care area of the module. Door material is to match other selected cabinet doors. The opening shall be 7"W x 11"H and trimmed with anodized aluminum. Include a Southco flush pull ring latch.

Bid complies _____
Bid does not comply _____

O2 OUTLET, OHIO MEDICAL (1) Inhalation Area, (1) Ceiling Above Cot, (1) Forward End of Bench Wall per Drawing

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, SSCOR, INHALATION AREA

The manufacturer shall furnish and install an SSCOR suction system. The system shall include a wall-mounted regulator and a canister holder. 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 CFP #107CDC20

The aspirator system shall be operated through a CFP #107CDC20 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 _____

ZICO QR-D-2 PORTABLE OXYGEN CYLINDER BRACKETS

Ship loose (2) Zico #QR-D-2 portable oxygen cylinder brackets.

Bid complies _____

Bid does not comply _____

MISCELLANEOUS

The following equipment or services shall be furnished and/or installed by the ambulance manufacturer or its assigned dealer:

- State Contract Pricing
- Installation of Customer Supplied Stryker Power Load System
- Installation of Customer Supplied Modem antenna on cab roof. Cable to end behind passenger seat
- Installation of Customer Supplied Medvault
- Installation of Customer Supplied Knox KeySecure in front Console -Size and location to be determined
- Purchase and installation of cab arm rests

Bid complies _____

Bid does not comply _____

CERTIFICATIONS

KKK-A-1822F CERTIFICATION LABEL

The vehicle shall have weight/payload, electrical load, and the current KKK-A-1822 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 _____