

REQUEST FOR PROPOSALS

New 2019 Ford F-450 Four Wheel Drive Type 1 Ambulance



Big Sky Fire Department 2018 Ambulance Project
Big Sky Fire District - OWNER
Big Sky, Montana

September 7, 2018

Request for Proposals for 2019 Ford F-450 Four Wheel Drive Type 1 Ambulance
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INTRODUCTION

The Big Sky Fire District (aka Big Sky Fire Department) "OWNER" is seeking qualified fire apparatus firms for the construction of a new Ford F-450 four wheel drive Type 1 ambulance meeting the bid specifications listed below.

This Request for Proposal (RFP) is issued to qualified ambulance manufactures (AM) who are required to submit their proposal. Information will be obtained from the Proposal submitted in response to the RFP document, interviews, and discussions with former and present clients of Offerors.

This RFP shall not commit the OWNER to enter into any agreement to pay any expenses incurred in preparation of any response to this request, or to procure or contract for any supplies, goods or services. The OWNER reserves the right to accept or reject any and all responses to this RFP.

This Procurement is governed by the laws of the State of Montana and venue for all legal proceedings shall be the Eighteenth Judicial District, Gallatin County. By offering to perform services under this Procurement, all Offerors agree to be bound by the laws of the State of Montana and the local authority having jurisdiction.

I. PROJECT BACKGROUND AND DESCRIPTION

Project is a new Ford F-450 four wheel drive Type 1 ambulance for the Big Sky Fire District, which is located in the Gallatin and Madison Mountain ranges of Gallatin and Madison County, Montana.

Below outlines intended pre-construction milestones. This schedule may be altered at the option of the OWNER

NEW FORD F-450 FOUR WHEEL DRIVE TYPE 1 AMBULANCE RFP PROCUREMENT MILESTONES

- Advertisement Dates - 9/7/18 to 9/24/18
- Deadline to Receive RFP Responses - 9/28/18 at 10 am
- Open Responses in public meeting at Big Sky Fire Department Station 1, 650 Rainbow Trout Run - 9/28/18 at 11 am
- Complete Score and Selection – no later than 10/3/18 at 4 pm
 - Any delays will be communicated to Bidders

II. SELECTION PROCEDURE

This RFP is the first of a multi-part selection process. Under this RFP, the selection procedure is intended to evaluate the capabilities of qualified AM firms to provide services to the OWNER for this Project. The responses to this RFP will be evaluated by the OWNER in accordance with criteria listed below. The AM will be selected based on the overall merit of its proposal, information contained in RFP responses to the criteria, references, interviews and information obtained from any other reliable source.

New 2019 Ford F-450 Four Wheel Drive Type 1 Ambulance Evaluation Criteria

(Total of 100 possible points)

1. HISTORY AND EXPERIENCE WITH SIMILAR PROJECTS (15 points):

- Describe projects scope, size, complexity, construction costs, owners, locations and difficulties. Emphasis to be placed on firms that have experience with successful placement of units in mountain topography and future successful ambulance remounting of that units

2. TOTAL COST FOR PROPOSAL (35 points):

- The costs quoted for this project shall include all costs needed to fulfill the items in the Bid Specification

3. RFP MATCHING BID SPECIFICATIONS (50 points):

- This includes not only an assessment of the requirements being met but also if the instructions are followed correctly, reflecting the overall ability of the bidder

III. SUBMITTAL INFORMATION

Provide one (1) original and two (2) copies of the written response to this RFP not later than 9/28/18 at 10 am. RFPs arriving after this time will not be accepted.

Send sealed copies titled “**Big Sky Fire Department 2018 Ambulance Project**” to the Big Sky Fire Department via US Mail the following address:

**Big Sky Fire Department
P.O. Box 160382
Big Sky, Montana 59716**

Hand delivery, UPS or FedEx delivery of sealed copies titled “**Big Sky Fire Department 2018 Ambulance Project**” to the Big Sky Fire Department can be made at the following address:

**Big Sky Fire Department
650 Rainbow Trout Run
Big Sky, Montana 59716**

All questions and contacts regarding this RFP must be submitted in writing before 3 PM on September 24, 2018 to Fire Chief William Farhat, wfarhat@bigskyfire.org,

IV. INSTRUCTIONS TO PROPOSERS

Response to the RFP must:

1. Be signed by an officer, principal or authorized agent of your firm.

V. FORM OF AGREEMENT

The OWNER anticipates using winning firm’s purchase contract once it has been reviewed by the fire district’s attorney and found to be in legal compliance the laws of the State of Montana and of the needs of the District.

Big Sky Fire Department 2018 Ambulance Project

RFP BID SPECIFICATIONS

INSTRUCTIONS FOR BIDDERS

This specification establishes standards for the design, construction and performance of a Type 1 ambulance. The completed vehicle and components must comply with the current KKK-A-1822F to include all approved change notices. As the criteria for compliance KKK-A-1822F are well established, this document will not contain redundant references to their content.

Bids will not be accepted after the date and time stated in the Big Sky Fire Department Request for Proposals (RFP) for 2019 Ford F-450 Four Wheel Drive Type 1 Ambulance, dated September 7, 2018.

Payment shall be made in accordance with these specifications and the Bid Specifications Proposal submitted by the Bidder. Payment will be made upon acceptance of the vehicle(s) and equipment specified in this document.

Bids received shall be evaluated by the Owner as outlined in the RFP. This evaluation will be based on, but not limited to, completeness of proposal, exceptions, price, and delivery schedule.

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

Any exception to the provisions in these specifications must be marked in the body of this document and itemized on a separate attached page(s) clearly titled as EXCEPTIONS. Referenced by section number and paragraph, a detailed explanation of the exception shall be provided along with by the bidder's alternative proposal. Bids not following this format shall not be considered and there is no guarantee that an exception will be accepted by the Owner.

The Contractor shall indemnify and save the Owner harmless from any and all claims, liability, losses, and causes of actions which may arise out of the fulfillment of this agreement. The Bidder shall pay all claims and losses of any nature whatsoever in connection therewith, and shall defend all suits, in the name of the Owner when applicable, and shall pay all costs and judgments which may ensue thereafter.

Failure to deliver any part of the order to the terms required may be considered by the Owner as a breach of contract.

When submitting their Bid Proposal, Bidders must return all pages of these specifications as part of the Bid Proposal as it will form the Contract between the Contractor and the Owner. Caution should be taken by the Bidder that all questions are answered in the spaces provided and that all information requested is provided.

It is the Bidder's responsibility to be familiar with all federal, state, and local laws, ordinances, codes, and regulations concerning the submission of this bid and the work it effects. Ignorance of said enactments shall not relieve the Bidder of responsibility to comply or complete the bid work.

In the event a clarification is requested on the contents of this specification, the question shall be addressed in writing to Fire Chief William Farhat as outlined in the RFP.

When a Bidder requests clarification, a copy of the request and this Agency's reply will be forwarded to all submitting Bidders.

The vehicle(s) shall, at the time of delivery, conform to the minimum requirements of the latest standards covering vehicles of this type. This shall include federal, state and local requirements.

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

The vehicle(s) and its equipment will be inspected and picked up at the factory by the customer at their own expense. Prices shall be quoted on a delivered and accepted vehicle-by-vehicle basis.

Ambulances manufactured and/or owned outside of the United States will not be considered.

COMPLY? (initials) YES _____ NO _____

All bid prices shall quote F.O.B. destination basis, delivery customer to pick up at factory. Bid prices shall be complete and include all warranties and equipment specified. After bid allowances will not be made for incorrect or incomplete bids proposals.

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

Bid prices shall be valid for at least thirty (30) days from the date of the Bid Opening, or as otherwise specified on the Bid Proposal Form.

This agency seeks the highest level of quality assurance and liability protection. To insure that these standards are met, Bidders must submit documentation that they are a current member of the Ford QVM (Qualified Vehicle Modifier) program and the Ambulance Manufacturers Division of the National Truck Equipment Association. The QVM certification applies even in cases where the chassis bid is not a Ford Motor Company product. Bids not meeting this requirement cannot be considered.

To insure that this contract is awarded to a vehicle manufacturer who has the resources to meet the performance and warranty criteria specified herein, the Manufacturer of the proposed vehicle may not have liens placed on their property, buildings or equipment. This agency may procure credit reports to verify compliance. Bids not meeting this requirement cannot be considered.

All equipment furnished shall be guaranteed to be new and of current manufacture; meet all requirements of this specification; and be in proper operating condition at the time of delivery. All parts shall be of high quality workmanship and construction. No part or attachment shall be substituted or applied contrary to the manufacturer's recommendations and standard practices.

Bidders shall include with the Bid Proposal: literature, photographs or similar documents which describe or depict the manufacturer's type and model proposed; a complete set of the manufacturer's specifications for the type and model proposed; and one (1) set of drawings. These drawings shall consist of: four (4) exterior views; front, rear, curbside and street side and four (4) interior views; front, rear, curbside and street side, showing the location of all requested features attached thereto. All bids must be received in the form outlined in the RFP.

NOTE: the drawings submitted by the Bidder must show the design, layout, and features specified in this document. Submitting a manufacturer's "generic" or "standard feature" drawings, or photocopies of the reference drawings provided with this document, shall NOT be acceptable.

Since these specifications describe an emergency vehicle that may be used under adverse conditions, this agency seeks to reduce its future liability exposure. Therefore, all bidders responding to these specifications shall submit a proper and verifiable Certificate of Insurance. This shall certify that the Manufacturer of the bid vehicle has in force, Product Liability insurance in the *minimum* amount of *ten* million dollars (\$10,000,000.00). This insurance shall have been issued by a Company rated "A+" as reported in the current edition of Best's Key Rating Guide, published by Alfred M. Best Company, Inc. Bidders failing to submit proof of the above requirement cannot be accepted and their Bid Proposal will be rejected.

All Bidders must have any and all current licenses required by state law to do business in the state in which this agency resides.

IT IS AGREED BY THE UNDERSIGNED BIDDER THAT THE SIGNING AND DELIVERY OF THIS BID REPRESENTS THE BIDDER'S ACCEPTANCE OF THE TERMS AND CONDITIONS OF THE FOREGOING SPECIFICATIONS AND PROVISIONS, AND IF AWARDED THE BID BY THIS AGENCY, WILL REPRESENT THE AGREEMENT BETWEEN THE PARTIES.

Sign in ink in the space provided below. UNSIGNED bids will be considered incomplete and will be subject to rejection.

This agency has the right to accept or reject any and all bids submitted for any reason.

Company Name: _____

Representative Name Printed: _____

Position or Title of Representative: _____

Signature of Representative named above: _____

Name of Firm: _____

Signed (in ink): _____

(Signature of Officer of Company)

Title: _____ **Date Signed:** _____

Street Address: _____

Mailing Address: _____

City: _____ **State:** _____ **Zip Code:** _____

Office and Facsimile Phone Numbers: _____

Email Address: _____

Ambulance Manufacturer: _____

Model Year: _____ **Model Designation:** _____

Delivery will be made within ____ days of receipt of chassis by the Manufacturer

Bid Amount: _____ \$ _____

TOTAL WITH ALL ITEMS \$ _____

Big Sky Fire Department 2018 Ambulance Project Ambulance Bid Specification

1.0 CHASSIS

1.1 VEHICLE AND WHEEL BASE

2019 Ford F-450 Super Duty XLT chassis with 4-wheel drive and dual rear wheels, 169-inch wheel base, 84-inch cab to axle, Ford Ambulance prep package 47A.

COMPLY? YES _____ NO _____

1.2 ENGINE

Ford 6.7-liter Power Stroke Turbo Charged V-8 Diesel with OEM engine block heater.

COMPLY? YES _____ NO _____

1.3 AUXILIARY POWERTRAIN CONTROL (APC)

The Ford OEM APC module shall be standard. The APC Module is to be programmed in the "Charge Protection" mode. When the vehicle is in park, service brake disengaged, and the parking brake is set, the APC module shall electronically adjust the engine idle (up or down) to maintain proper electrical system voltage.

COMPLY? YES _____ NO _____

1.4 GAUGES AND METERS

Speedometer, odometer, fuel gauge, temperature, oil pressure, digital voltmeter, engine hour meter

COMPLY? YES _____ NO _____

1.5 SPRINGS / AXLE RATINGS & SHOCKS

Maximum GVWR – 16,500 lbs GVWR

Front: Monobeam with coil springs, shock absorbers and stabilizer bar.

Rear: Non-independent live axle with leaf springs and stabilizer bar.

COMPLY? YES _____ NO _____

1.6 STEERING

Power steering with tilt wheel and cruise control.

COMPLY? YES _____ NO _____

1.7 BRAKES

Heavy duty, hydro-boost assisted type 4-wheel anti-lock disc brake system.

COMPLY? YES _____ NO _____

1.8 TRANSMISSION

Torqueshift™ heavy duty 6-speed Select Shift transmission with external oil cooler.

COMPLY? YES _____ NO _____

1.9 AXLE, REAR

4.10 gear ratio w/ limited slip axle.

COMPLY? YES _____ NO _____

1.10 FUELTANK

Single tank w/ 40-gallon capacity.

COMPLY? YES _____ NO _____

1.11 WHEELS AND TIRES

Seven (7) 225/70R19.5G Steel Belted Radial tires, BSW all season tread. The spare tire will be mounted in the left rear exterior compartment. Stainless steel wheel inserts with valve stem extensions will be provided. The valve stem extensions are to be steel braided lines that are held in place with stainless steel brackets. These brackets are to be located in such a way as to provide easy access to both the inside and outside rear tires valve stems for the checking of tire pressure and for the addition of air when required.

COMPLY? YES _____ NO _____

1.12 BATTERIES

Two 750 CCA mounted in the engine compartment and wired parallel in OEM configuration that complies with Ford QVM and KKK-A-1822-F requirements. Batteries will be wired so that both will always be used for starting and controlled by a 300-amp power cut off switch. The power cut off switch circuit shall be protected by a 250-amp fuse. The Ford ignition key activates the cut off switch. Power can be provided to the module without the engine running by turning the ignition key to accessory position.

COMPLY? YES _____ NO _____

1.13 ALTERNATORS

Dual Ford OEM alternators with internal regulators. One 200-amp alternator and one 150 amp alternator for a combined for a total of 350 amps

COMPLY? YES _____ NO _____

1.14 WINDOWS, CAB

Tinted safety glass is installed in all exterior windows. Ford OEM power operated windows.

COMPLY? YES _____ NO _____

1.15 WINDSHIELD WIPERS

Two speed electric, with washer and adjustable intermittent cycle.

COMPLY? YES _____ NO _____

1.16 SEATS, DRIVER'S COMPARTMENT

Deluxe cloth OEM High Back Captains Chairs, seat belts and shoulder harnesses.

The Ford OEM cab seats must be the seats installed and shipped with the chassis by Ford and have the correct Ford prescribed serial number. The Ford OEM seat pedestals shall be located in the mounting location as determined by Ford. Any changing of the Ford OEM Seats, mounting pedestals or location thereof is absolutely prohibited.

COMPLY? YES _____ NO _____

1.17 HEATER AND AIR CONDITIONER

OEM heavy duty, high output.

COMPLY? YES _____ NO _____

1.18 COOLING SYSTEM, ENGINE

Heavy-duty liquid system using a 50/50 mix of permanent type antifreeze and water for protection to -40 Fahrenheit.

COMPLY? YES _____ NO _____

1.19 MIRRORS, OUTSIDE

OEM heated mirrors with power adjustment and built-in 2" x 6" convex mirrors, dual direction breakaway mounting arms with telescoping width adjustment.

COMPLY? YES _____ NO _____

1.20 TRIM PACKAGE, CAB

XLT Trim Package; full stainless-steel wheel simulators, chrome front bumper and grill. Color keyed door trim with map pockets, rubber floor mat, padded sunvisors, courtesy and dual dome lights, AM/FM Stereo Radio w/ CD & Clock w/ dual cab speakers. Power door locks, cruise control, tilt steering wheel, and power adjustable brake and accelerator pedals.

COMPLY? YES _____ NO _____

1.21 RUNNING BOARDS AND MUD FLAPS

Heavy-duty aluminum Diamond Plate running boards will be installed from the back of the front wheel opening to the front of the module box. They will include mudguards to protect the chassis and module. Rubber mud flaps will be installed behind the dual rear wheels.

COMPLY? YES _____ NO _____

1.22 MISC. CHASSIS ITEMS

Jewel effect day time running headlights, dual pitch horn, reduced sound level exhaust, OEM standard undercoating, step-well pad and factory supplied jack and tire tools, dual air bags.

COMPLY? YES _____ NO _____

1.23 REMOTE ENTRY

Remote Entry & anti-theft with two key FOB's shall be included.

COMPLY? YES _____ NO _____

CHASSIS LIQUID RIDE SUSPENSION

1.24 LIQUID SPRING LLC KNEELING COMPRESSIBLE LIQUID ADAPTIVE SUSPENSION SYSTEM

A Liquid Spring LLC kneeling Compressible Liquid Adaptive Suspension System shall be provided and installed on the rear axle of the chassis. It shall include a heavy duty, high capacity 12V power module with a fluid reservoir, designed to bolt on the chassis frame rail. The fill time for the kneeling feature shall not exceed 20 seconds.

The system shall be wired to kneel whenever the left leaf of the rear entry door is open. When the door is closed, the system shall automatically return to designed ride height.

COMPLY? YES _____ NO _____

1.25 KNEELING FEATURE OVERRIDE SWITCH

A switch shall be installed to allow this agency to override the rear suspension kneeling feature. It shall be an on/off style switch which, when in the "on" position, will allow the system to kneel whenever the left rear entry door is open. When this switch is in the "off" position, the kneeling feature will be disabled. The switch shall be located on the curbside by the rear doors.

COMPLY? YES _____ NO _____

1.26 GRILL GUARD

A Luverne Black Prowler grille guard and installed by the awarded vendor.

COMPLY? YES _____ NO _____

1.26 DRIVING/FOG LIGHTS

Hella fog lights will be supplied and installed by the awarded vendor. A switch shall be located on the front emergency switch console will be operate these lights.

COMPLY? YES _____ NO _____

1.27 RUNNING BOARD LIGHTS

LED lights will be located on the front of the module and will light up the running board area where one will step to prevent injury.

COMPLY? YES _____ NO _____

2.0 MODULE CONVERSION

2.1 DIMENSIONS, EXTERIOR

Overall vehicle length - 296.0 inches
Overall vehicle height - 111.0 inches
Overall module body length - 156.0 inches
Overall module body height - 87.0 inches
Overall module body width - 96.0 inches

COMPLY? YES _____ NO _____

2.2 DIMENSIONS, INTERIOR

Length forward door to rear door - 150.25 inches

Width interior wall to wall - 90.0 inches

Width of aisle - 49.0 inches

Height floor to ceiling - 72.0 inches

Loading height - 34.5 inches

(Must meet KKK and NFPA requirements)

COMPLY? YES _____ NO _____

2.3 GENERAL CONSTRUCTION

The entire body will be a welded and **SEAMLESS** one-piece body. The entire perimeter and around all openings of the body shall be fully welded and ground smooth thus eliminating any joints or seams. The use of tongue and groove method of construction that requires the use of a seam sealer is not acceptable. This is to prevent the cracking of paint at these areas resulting in a buildup of road dirt and grime and the eventual development of corrosion along the tongue and groove seams.

COMPLY? YES _____ NO _____

The aluminum skin, the roof and side panels, shall be permanently fastened to the framework using Lord 406/19 Acrylic Adhesive. Adhesive is applied to the sidewall skin to prevent warp age, oil canning and metal deflection associated with the welding of the sidewall skin to the structural framework. The use of double back adhesive tape is prohibited to eliminate the possibility of the adhesive tape failing to maintain a bond to the external skin.

COMPLY? YES _____ NO _____

The body wall skin shall be of prime commercial quality .125" thick 3003 H14 corrosion resistant aluminum. All side and roof panels shall be .125" thick. The use of side and roof panels that are of a lesser thickness is strictly prohibited.

COMPLY? YES _____ NO _____

The roof panel shall be a single sheet of aluminum. Covering the roof of the exterior body with sectional pieces of aluminum panels is prohibited. This is to eliminate the necessity for joints or seams where these panels join.

COMPLY? YES _____ NO _____

The wall and roof support framework shall be .125" 6061-T6 extruded aluminum box beams and extrusions spaced on 12" centers or less. There shall be no frame members spaced at a distance in excess of 12". The roof support framework shall additionally include .125" 6061-T6 extruded 1" x 2" aluminum box beams running the full length of the roof. The frame and skin shall be fully welded with no rivets.

COMPLY? YES _____ NO _____

The exterior of the body will be finished smooth with 45-degree SEAMLESS beveled extruded corners presenting a modern and dynamic appearance. The outer wall thickness of the extruded corners shall be .250" to provide additional protection at all corners. The body will be designed and built to provide impact and penetration resistance, with appropriate channel reinforcing to assure rigidity.

COMPLY? YES _____ NO _____

All parts of the body and attachments will be fastened together with rust resistant fasteners in a manner that will preclude loosening of any bolts and screws, and the cracking of welded joints. The exterior body panels will be made of not less than 0.125" thick metal and be reinforced at all points where equipment will be attached.

COMPLY? YES _____ NO _____

The body will be a bolted and welded structure. Welding will not however, be employed in the assembly of the body in a manner that will prevent the ready removal of any component part for service or repair.

COMPLY? YES _____ NO _____

In the assembly of the body, areas where steel is in contact with aluminum, there shall be butyl rubber isolator pads installed. This pad provides corrosion and water resistance.

COMPLY? YES _____ NO _____

All fasteners, bolts, screws, etc., used in the assembly of the body and all attachments shall be coated with the "ECK" brand corrosive protectant. Additionally, all exterior door hinges, both entry and compartment, are to be coated with "ECK" protectant prior to the installation of the door. This "ECK" coating is to be used in lieu of a gasket material behind the hinge to prevent the problems of gasket retention and deterioration.

COMPLY? YES _____ NO _____

2.4 ROOF

The roof surface shall be **SEAMLESS** and **CROWNED** and of **ONE PIECE** of .125" aluminum (3003-H14). The use of any type of sealer or caulking material is strictly forbidden. There shall be no lip or protrusion on the roof that could result in the entrapment of any water or moisture.

COMPLY? YES _____ NO _____

The perimeter of the roof shall be constructed of 45-degree **SEAMLESS** beveled extrusions that eliminate any lip or protrusion providing a smooth finish. The outer wall thickness of the roof perimeter extrusions shall be .250" to provide additional protection at all perimeter corners.

COMPLY? YES _____ NO _____

The roof under structure will be fabricated from extruded aluminum box beams (6061-T6). The under structure will be constructed by welding 1" x 2" x .125" box beams lengthwise and by welding 2" x 2" x .125" box beams, spaced on 12" centers or less, crossways forming a cross sectional grid roof support framework. The complete roof will be treated with a sound-deadening barrier. The roof panel shall be fully perimeter welded and adhesive bonded to the roof under structure with Lord 46/19 Acrylic Adhesive. The use of skip or intermittent welding of the roof perimeter is unacceptable.

COMPLY? YES _____ NO _____

2.5 SIDE WALLS

The body sidewall skin shall be constructed of .125" aluminum (3003 H14). The sidewall under structure will be fabricated by welding 2" x 2" x .125" extruded aluminum box beams vertically, spaced no further than on 12" centers. The vertical tubing will join and be welded to roof supports (2" x 2" x .125" extruded aluminum box beams) to form an interlocking grid between the sidewall and the ceiling. The complete sides will be treated with a sound-deadening barrier. The body sidewall skin shall be fully welded around the entire perimeter and all body openings and adhesive bonded to the sidewall frame work with Lord 406/19 Acrylic Adhesive.

COMPLY? YES _____ NO _____

All body openings shall be seamless. Body openings framed with tongue and groove style extrusions requiring the use of seam sealer will not be acceptable.

COMPLY? YES _____ NO _____

2.6 FLOOR SUB-STRUCTURE

The floor shall be at the lowest level permitted but not more than 35 inches from the ground with **NO MODIFICATION TO THE FORD OEM CHASSIS SUSPENSION.**

COMPLY? YES _____ NO _____

The floor sub-structure shall consist of two (2) 1/4" walls 2" x 2" aluminum tubes running at the outer edge for the full length of the floor and the chassis frame rails. There shall then be fourteen (14) 1 1/2" x 1 1/2" x 1/4" walls 1 1/2" x 2" aluminum tubes running the width of the floor and fully welded to the outer tubes. This sub-structure frame is to mount on top of the Chassis frame rails via the 10 OEM Pucks. 2 Full-Length Plates measuring 3/4" x 6" shall be welded to the underside of the 1 1/2 x 1 1/2 tubes, one left and one right. The outer edges of these plates shall be welded to the 2 x 2 primary box beams. These plates shall be bolted, via OEM rubber mounts, to gusseted steel brackets bolted to the OEM frame. There shall be ten (10) rubber mounts attaching the body to the frame.

COMPLY? YES _____ NO _____

2.7 EXTERIOR COMPARTMENT CONSTRUCTION

Compartments provided on the unit will be constructed as follows: The compartment floor will be fabricated of .125 diamond plate aluminum (3003-H14) and the ceiling and bulkheads of .100 diamond plate aluminum (3003-H14). All compartment floors will be reinforced with two 1x2 aluminum bars on the underside of the floor.

COMPLY? YES _____ NO _____

All exterior compartments will be sweep out style to provide for ease of cleaning. Drain holes are not desirable. All exterior compartments will be vented to provide for the displacement of air when closing doors. Vent louvers shall be installed on the vertical walls of the exterior compartments.

COMPLY? YES _____ NO _____

All exterior compartments shall be lighted when the compartment door is opened. Compartment lights will be flush mounted with wiring routed through the body eliminating any exposed wiring.

COMPLY? YES _____ NO _____

All exterior compartment shelving shall be "Pan" style aluminum shelves mounted on two (2) sets of uni-strut tracks at each end of the shelf providing infinite adjustment. Rubber matting is to be installed on the topside of all shelving.

COMPLY? YES _____ NO _____

2.8 DOORS

The corner of each door frame shall be ¼" Cast Aluminum inserted & welded to horizontal & vertical extrusions. This Cast part shall ensure superior strength as well as uniform fit & finish.

COMPLY? YES _____ NO _____

The door(s) of each compartment will be flush type (being on the level with adjacent body surface) and of **PAN FORMED / EXTRUSION DOUBLE BREAK** construction. The weather seal is to be mounted on the outer flange of the door with the latches and strikers mounted on the extruded second break inside the door opening. This door design eliminates exposure of the latches to the elements and prevents moisture from corroding the latch mechanisms.

COMPLY? YES _____ NO _____

All doors shall be constructed of .125 aluminum and 2 ½" thick.

COMPLY? YES _____ NO _____

The inner panel on all exterior compartment and entry doors will be fastened to the extruded door-frame and recessed into the door frame extrusion for a flush finish. Surface mounting of any interior door panels is not allowed. All fasteners used for the mounting of the interior panels are to have a rubber grommet affixed to the underside of the screw head to prevent the fastener screws from loosening and backing out of the extrusion. The interior door panels shall be readily removable for access to the interior of the door and the latching mechanism.

COMPLY? YES _____ NO _____

All doors shall be reinforced and cross-braced inside for increased strength allowing for the mounting of equipment on the door.

COMPLY? YES _____ NO _____

In order to facilitate adjustment and routine maintenance of door linkage rods and latches, all patient compartment entry doors shall have access ports. There is to be an access port above and one below each interior entry door handle of sufficient size to allow for the adjustment of the door linkage rods. All ports are to be covered with a friction type "plug-in" plastic cover that is readily removable.

COMPLY? YES _____ NO _____

The door latch assembly of each compartment will be an Eberhard Grabber 21100 series, two (2)-point slam lock (206 rotary latch), of stainless steel construction. Door

latch assemblies shall be “blind mounted” eliminating any exposed mounting hardware on the exterior side of the latches. There is to be a rubber gasket between the exterior stainless-steel latch assembly and the aluminum door to ensure the isolation of the two dissimilar metals.

The door linkage rods’ connecting the door handles and the rotary latches are to be 5/32 steel rods threaded on turn buckle end. They shall be straight direct pull rods with no bends built into the rods allowed. Adjustments to the entry door linkage rods are to be provided by a turnbuckle located above and below and adjacent to each interior door handle.

COMPLY? YES _____ NO _____

All exterior doors are to be lockable via an “automotive style” lock with all compartment and patient compartment entry doors being keyed alike. The key shall be double sided for ease of insertion into the lock.

All Exterior doors will have power locks and have a hidden button located in the grille to unlock all the doors when pushed.

COMPLY? YES _____ NO _____

Door strikers shall be installed on the vertical compartment flanges, with the exception of double doors. There are to be two (2) pins per door, with the exception of the battery compartment door. All striker pins shall be fully adjustable from the exposed side. They will be grade 8.0 cadmium plated steel strikers with a “captive nut” for adjustment and so located as not to interfere with the sweep-out design of the compartment itself.

COMPLY? YES _____ NO _____

All compartment and entry doors shall have one-piece Stainless Steel doorsill protectors that will cover both surfaces of the body opening.

COMPLY? YES _____ NO _____

Each compartment and entry door is to have a full width aluminum drip rail mounted above each door. All drip rails are to be attached using double back adhesive tape. The use of screws, rivets, or any other form of metal attachment is not acceptable.

COMPLY? YES _____ NO _____

All compartment doors will be equipped with a gas strut door stay that holds the door at 90 degrees to the body when open. All gas struts are to be mounted in such a way as to allow for easy access in the event that replacement or repair is required.

COMPLY? YES _____ NO _____

There shall be a “dampening” devise installed within each gas strut for the purpose of preventing the “shock” that can occur when a gas strut is fully extended.

COMPLY? YES _____ NO _____

Each compartment door will be mounted with a continuous stainless-steel hinge with a minimum pin diameter of (.250). Hinge Pin diameter of less than (.250) is unacceptable to ensure the long-term performance of the hinge in this extreme use application.

Each compartment opening is to be sealed with full perimeter 5/8” wide by 1/2” thick hollow core wiper seal. The seal is to be mounted on the doorframe out board of the striker pins and the door latches. This seal insures that each compartment will be dust and waterproof and that the striker pins and door latches will remain dry and clean.

COMPLY? YES _____ NO _____

All exterior compartment and patient compartment entry doors shall be insulated with a single layer of R-14.5 reflectix insulation. Additionally, there shall be a single layer of 2” polystyrene insulation installed in each door.

COMPLY? YES _____ NO _____

Rear patient compartment doors shall be equipped with Cast Products "Grabber" hold-open devices. Side patient compartment door shall be equipped with Gas Strut door opening device.

COMPLY? YES _____ NO _____

Rear and side patient compartment doors shall have dark tinted safety glass windows encased in extruded aluminum frames. Each rear door shall have an 18.5" x 17.5" fixed window. The side door shall have an 18.5" x 17.5" slide opening window with screen and window lock.

COMPLY? YES _____ NO _____

Right side entry door opening: 68"H X 30" W
Rear entry door opening (double door): 57"H X 48" W
Curb side window over bench seat 16"x32" solid also will have a telescoping marker board.

COMPLY? YES _____ NO _____

2.9 LICENSE PLATE HOLDER

Installed in the center of the rear kick plate above the rear step bumper there shall be a Cast Products license plate holder. There are to be two LED lights mounted in the holder.

COMPLY? YES ____ NO ____

3.0 ELECTRICAL SYSTEM

3.1 ELECTRICAL SYSTEM COMPONENTS

A Weldon V-MUX 100% solid-state microprocessor based multiplex system will be installed to control the electrical functions. The system will provide diagnostics lap top plug in capability. The front console shall contain fifteen (15) PODS buttons with an OLED, text display. The rear panel shall contain twelve (12) PODS buttons. PODS buttons are flexible to be used as latching, multi-level or momentary buttons. A Weldon High Content Node (S) shall be provided. There could be one or more depending upon demand requirements.

Comply..... YES ____ No ____

3.2 WARNING DISPLAYS

A digital OLED display and audible alarm will be integrated into the cab console and programmed through the multiplex system to provide visual and audible indications for:

- Outside storage compartment "door open" warnings
- Module Curbside and Rear "Door Open" Warning
- Low voltage alarm
- System Voltage
- System Errors

Comply..... YES ____ No ____

3.3 VOLTMETER

The OLED display on the console will display system voltage

Comply..... YES ____ No ____

3.4 CONTROL PANEL PODS BUTTONS

A console panel will be mounted in the cab and a rear panel will be mounted in the access door to the electrical service cabinet in the action area. The PODS buttons will control all Emergency Warning functions as well as being able to control the Patient Compartment lighting and module heat/ac functions.

The PODS buttons will have dimmable perimeter backlighting for easy identification and a red LED will light up when turned on.

Comply..... YES ___ No ___

3.4.1 MODULE POWER BUTTON

A module power button for the electrical system will be provided on the front panel.

Comply..... YES ___ No ___

3.4.2 EMERGENCY MASTER BUTTON

A single emergency master button will be supplied for activating all the emergency warning lights and will be provided on the front console panel. The emergency master button will activate the module power automatically.

Comply..... YES ___ No ___

3.4.3 FLASHER

The flasher with a radium flash pattern will be provided within and programmed by the multiplex electrical system.

Note rear red LED's at door window height will flash when brake is applied.

Comply..... YES ___ No ___

3.4.4 PARK OVERRIDE

A park override PODS button, located on the Front Console Panel, will reactivate all lights disabled when the transmission is placed in the neutral/park position.

Comply..... YES ___ No ___

3.4.5 BACKUP ALARM OVERRIDE

The Front Console Panel will have a PODS button to disable the backup alarm. This override will automatically reset to "Enabled" when the vehicle is removed from Reverse.

Comply..... YES ___ No ___

3.4.6 CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR

The curbside scene lights will be programmed to activate when the curbside door is in the open position.

Comply..... YES ___ No ___

3.4.7 REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN

The rear scene lights will be programmed to activate when the rear doors are in the open position.

Comply..... YES ____ No ____

3.4.8 REAR SCENES "ON" IN REVERSE

The system will be programmed to provide activation for the rear scene lights, and the rear side scene lights, when the transmission selector lever is placed into the "reverse" position.

Comply..... YES ____ No ____

3.5 ELECTRICAL WIRING

All of the vehicle's electrical equipment will be served by circuits separate and distinct from the chassis electrical system. All circuits shall be rated to carry 125% of its maximum load. All electrical wiring will be run in grease, oil, heat and moisture resistant looming. Harnesses will be fastened with vinyl-clad clamps and grommeted at any area they contact a metal edge.

Every load carrying wire will be a minimum of 14-gauge and will be color-coded and heat embossed with its function every 6 inches. There will be at least a 6-inch service loop of wire at the point of attachment to each component. All electrical connections will be machine crimped; the use of Scotch-locks is strictly prohibited.

COMPLY? YES ____ NO ____

3.6 GROUNDING SYSTEM

Due to the fact that most electrical problems in all 12-volt systems, but especially in emergency vehicles are due to problems with bad grounds, the body will be grounded to the chassis frame with 2 heavy duty braided grounding straps. In addition, there will be grounding straps from the engine block to the body and frame. There is to be a Major Ground Buss Bar in the electrical panel that is connected to the ground straps and frame, and then each individual circuit will have its own ground wire run to that ground buss bar. This will greatly improve the grounding of all circuits in the vehicle and insure less electrical problems.

The Weldon HC NODES shall be ground directly to the chassis batteries to eliminate any interference or possible loss of ground which would result in the shutdown of the entire NODE.

COMPLY? YES ____ NO ____

3.7 ELECTRICAL SERVICE CABINET

The electrical service panel will be mounted in the electrical service cabinet above the action area and will be easily accessible by activating a single latch allowing the Button POD Panel section to swing down. The V-Mux Node(s) will be located in an easily accessible location in the electrical service cabinet for service technicians to perform troubleshooting and service work. This cabinet must be solely for the electrical system components with a large enough door opening to perform work on the systems completely without removing them from the cabinet.

Under no circumstances will any of the electrical systems be mounted in any exterior compartment. **NO EXCEPTIONS**

COMPLY? YES _____ NO _____

3.8 12V DC OUTLETS

There shall be four (4) Cigar style 12V DC outlets, one located in the action area, and two (2) in the right front bulkhead ALS compartment and (1) in cabinet above action area for IV warmer.

All outlets will be battery hot.

COMPLY? YES _____ NO _____

3.9 110V AC SYSTEM

There shall be a weatherproof 110V- 125V Kussmaul Super Auto Eject rated at 30 amps with a spring-loaded cover assembly located on the front left corner of the module body for incoming 110-volt power. This receptacle shall be labeled. It shall be wired through **TWO** 15-amp circuit breakers. An LED light will indicate power is working when plugged in. The circuit shall include two (2) 110-volt interior receptacles, two (2) located in the action wall area and one in the ALS area. Both outlets shall illuminate per KKK-A-1822-F.

COMPLY? YES _____ NO _____

3.10 LIGHTING, EMERGENCY

The unit shall be equipped with the following warning lights:

8) Whelen Series 9 x 7 red LED lights as follows:

- 2) Facing forward
- 2) Facing rearward
- 2) Facing rearward either side of rear doors at window height
- 2) Facing right
- 2) Facing left

1) Whelen Series 9 x 7 clear LED light installed top center forward.

2) Whelen Series 9x7 red/clear LED light installed either side of top center forward.

- 1) Whelen Series 9 x 7 amber LED light installed top center rearward.
- 2) Whelen red LED lights mounted in the Front Fenders.
- 2) Whelen Series 6x4 red/amber LED light installed above rear wheel well
- 2) Whelen Series 500 red LED's in Chrome Housings in the Grill.
- 2) Whelen Series 500 clear LED's in Chrome Housing in the Grill to be used as headlight flashers.

Circuit shall have a dual mode switch. "Primary" shall flash all lights. "Secondary" shall flash top red & amber lights only.

All lights will have chrome flanges.

COMPLY? YES _____ NO _____

3.11 SCENE LIGHTS

There shall be four (4) LED Whelen Series 900 24-diode with 13-degree tilt built into the lenses mounted two (2) lights on the left side and two (2) lights on the right side. There shall be two (2) LED Whelen Series 900 with 24-diode with 13-degree tilt built into the lenses mounted on the rear. A separate switch on the driver's switch panel shall control each pair. In addition, the right side and rear scene lights shall activate when the right side or rear doors, respectfully, are open.

All scene lights will have chrome flanges.

COMPLY? YES _____ NO _____

3.12 DOOR SWITCHING

Magnetic Door Switches shall be installed to activate Door Open, Compartment Open, Dome and Scene Lights.

COMPLY? YES _____ NO _____

3.13 SIREN AND SPEAKERS

Siren shall be a 295 HFSC9 Dual Tone. Dual Cast Products Siren Speakers shall be mounted outboard in the face of the Chrome Front Bumper, below the Headlights, in cast aluminum housings.

COMPLY? YES _____ NO _____

3.13B AIR HORN

A Buell dual air horns will be supplied and mounted under the front bumper by the awarded vendor.

COMPLY? YES _____ NO _____

3.14 SPOTLIGHT

There shall be a "300,000 candle power" spotlight, with eight-foot coiled cord and momentary switch, permanently wired into front console. A "Mic" style storage clip shall be provided.

COMPLY? YES _____ NO _____

3.15 LIGHTS, PATIENT COMPARTMENT

The ceiling headliner shall contain eight (8) Whelen High - Low intensity LED dome lights. The left and right banks of lights shall be switched separately. In addition, the left bank high mode can be switched from the drivers switch panel and will be activated by opening of the side or rear entry doors. There shall be a timer switch installed in the right wall at the head of the squad bench. The timer switch will allow the left bank of Dome Lights to turn on even when the master switch is in the off position.

In addition, a 10" LED light shall be in the action area.

COMPLY? YES _____ NO _____

3.16 CLOCK, PATIENT COMPARTMENT

A battery-powered Atomic Digital Clock w/Indoor Temp. & Date. 12/24 Hour display, Automatic updates for time (including DST), month, day, date Calendar.

COMPLY? YES _____ NO _____

3.17 SUCTION - ON BOARD

An SSCOR/Board On Board suction system with an Impact E-12 Suction Pump shall be provided and mounted recessed under the action area counter top just forward of the CPR Seat.

COMPLY? YES _____ NO _____

3.18 VENTILATION

A 138-CFM exhaust fan shall be mounted near the ceiling in the left rear of the patient compartment and shall be activated by a switch on the action wall.

COMPLY? YES _____ NO _____

3.19 LOW VOLTAGE ALARM

A Low Voltage Alarm shall sound when voltage drops below 11.8 volts for more than 120 seconds.

COMPLY? YES _____ NO _____

3.20 SWITCH CONSOLE, DRIVER'S

There shall be a switch console mounted in the center of the cab floor between the seats in such a way as to not interfere with access to the dash yet easily accessible to the driver. The console shall be easily removable to allow access for service. There shall be space provided for the installation of radios below the Weldon V-Mux Switch Panel. The switch panel shall be esthetically appealing and incorporate as follows:

Top Row:

"E" Master Switch / Primary/Secondary / Light Bar / Heat - AC / Patient Domes / Mod Power

Second Row:

"OLED" Display Screen / Back up Alarm Disable / Voltage Alarm Disable

Third Row:

Door Ajar Light / Compartment Ajar Light

Bottom Row:

Emitter / Siren - Horn / Left Scenes / Rear Scenes / Right Scenes

Additional switches will include a switch on the driver's side to operate air horns and a switch to operate driving lights.

COMPLY? YES _____ NO _____

3.20.1 SWITCH CONSOLE, PATIENT COMPARTMENT

The following switches shall be in the rear control panel, which shall be hinged for easy access to components. They shall be mounted in a double row at an angle facing the center of the cot and the squad bench.

Top Row:

Mod Power / Left Domes / Right Domes / O2 Light / Attendant Light

Bottom Row:

Inverter / Suction / Exhaust Fan / HVAC Fan Speeds / Heat - AC

COMPLY? YES _____ NO _____

All switches in front and rear panels shall be Weldon Button Pod switches that are permanently marked by function, illuminate when activated and backlit for night visibility.

COMPLY? YES _____ NO _____

3.21 INVERTER

A Vanner Inverter/ conditioner with remote switch model 20-1050CUL will be installed and provided in an inside cabinet out of the elements the awarded vendor.

COMPLY? YES _____ NO _____

3.22 MAP LIGHT

A Federal Signal LED little light will be installed and provided by the awarded vendor. The light will be located on the passenger side of the front console.

COMPLY? YES _____ NO _____

3.23 USB PORT

A USB port will be located in the front switch panel for easy use.

COMPLY? YES _____ NO _____

3.24 ANTENNA AND PRE-WIRE POWER AND GROUND

Two (2) Antenna pre-wires shall be run one (1) from behind the driver's seat to the front street side dome light and one (1) from the action area to the front curb side dome light. Two (2) power grounds will be run one (1) from behind the driver's seat and one (1) from the action area.

COMPLY? YES _____ NO _____

3.25 IV WARMER

A Smithworks IV warmer will be supplied and installed in the lower left corner of the cabinet above action area. This will be a 12V system and will be battery hot.

COMPLY? YES _____ NO _____

3.26 BACKUP CAMERA

A Federal Signal back up camera with monitor located in rear view mirror shall be supplied and installed by the awarded vendor. This shall automatically turn on when the ambulance is placed in reverse.

COMPLY? YES _____ NO _____

3.27 ELECTRIC OXYGEN

Electric O2 solenoid with switch will be installed and supplied by the awarded vendor.

COMPLY? YES _____ NO _____

4.0 PATIENT COMPARTMENT

4.1 FLOOR, PATIENT COMPARTMENT

The sub floor shall consist of .090" thick 3003 H14 corrosion resistant aluminum sealed watertight. Over the aluminum sub-floor there shall be a sheet of 3/4", 13 ply, exterior grade plywood that is caulked and sealed.

COMPLY? YES _____ NO _____

The floor is then to be covered with a single piece of commercial-grade, LON-PLATE non-skid flooring, which shall roll up the left wall and the squad bench approximately 3". Behind the linoleum at the base of the left wall and the squad bench, coving shall be installed providing a solid backing at the point of the bend in the floor. This coving shall run the full length of the left wall and the squad bench. Flooring shall be sealed at all edges to prevent water from seeping between the floor and cabinets.

COMPLY? YES _____ NO _____

A formed 6-inch, full width stainless steel floor protection strip shall be installed forward of the rear patient compartment door seal. Additionally, antiskid tape, 2 inch wide, is to be laid the full width just inside the rear entry doors over the floor protection strip.

COMPLY? YES _____ NO _____

4.2. CABINETS, INTERIOR

All interior cabinets shall be built using 3/4" cabinet grade, finished both sides, 7 ply, solid core, birch plywood. The use of plywood of any lesser quality or thickness is strictly prohibited.

COMPLY? YES _____ NO _____

All interior cabinets shall be constructed using wood screws. The use of staples or nails in the fastening of cabinet components is strictly prohibited.

COMPLY? YES _____ NO _____

Exposed cabinet surfaces, interior and exterior, are to be covered with "Wilsonart" laminate. All cabinets and counter tops shall be caulked and sealed. Cabinets shall incorporate 1-inch aluminum radius corners throughout and have generous padding to lessen the chance of injuries in the event of an accident. Sliding Plexiglas windows shall

be 1/4" thick with full height extruded aluminum handles mounted in full perimeter slide track. Door catches shall be flush-mount slam-type positive latching.

COMPLY? YES _____ NO _____

4.2.1 CABINETS, LEFT WALL

Cabinets shall be laid out per the following with a one-piece molded Fiberglass countertop for the attendant in the action area and monitor area. A cabinet above the action area that will be 38.25" W x 14" H x 19.75" D. A cabinet rear of CPR seat upper corner 39.75" W x 21 1/8" H x 19.75" D. A cabinet below rear upper cabinet 28" W x 21 1/8" H x 19.75" D. All cabinet will have one (1) adjustable shelf and all will have sliding Plexi glass doors.

COMPLY? YES _____ NO _____

The action wall shall house the technician's console, two oxygen outlets, vacuum outlet, climate control thermostat and fan control, one 12-volt connection and one lighted 110V duplex outlet. The upper action wall area shall be hinged for ease of access.

The monitor area will house a Life Pack 15 monitor mount that swivels (Installed and provided by awarded vendor), one (1) 110V outlet and (1) 12V outlet

COMPLY? YES _____ NO _____

4.2.2 BULK HEAD CABINETS

Cabinets shall be designed per drawings. The driver side cabinet shall incorporate a floor mounted climate control unit. Unit shall drain directly through the floor. Air in-take shall be at floor level, while output shall be ducted overhead, across the bulkhead cabinets. The return air shall be filtered. Directly above the climate control unit shall be a storage area. A cabinet directly above this will house the inverter.

A horizontal cabinet shall be located above the walk-thru at ceiling level. The right side shall have a locking drug box at ceiling level and inside/outside access cabinets below all the way to floor level with two adjustable shelves, and a single aluminum roll up shutter door. The inside/outside cabinet shall be lighted at each shelf level with recessed lighting. The face of the overhead bulkhead cabinet doors shall be padded.

The bulkhead shall incorporate a crawl thru with hinged door and Plexiglas window from the rear patient compartment to the front cab. This crawl thru shall be sealed and weather proof via a flexible rubber boot connection between the cab and the modular body.

COMPLY? YES _____ NO _____

4.2.3 SQUAD BENCH

The squad bench base shall be constructed of .075” gauge stainless steel for strength and ruggedness”. The lid shall be split into two sections. Each lid will have a gas strut hold open device and paddle style latches. The interior shall be lined with white Wilsonart laminate.

A cabinet shall be designed at the head end of the squad bench to work with the “A” frame sharps and waste and will house two (2) portable O2 bottles. The awarded vendor will also install and supply 2 quick release Zico portable O2 holders.

COMPLY? YES _____ NO _____

4.3 SEAT, EMT / ATTENDANT

An attendant seat shall be located at the head of the primary cot. It shall be a high back deluxe seamless vinyl captain’s chair mounted on a swivel base as approved by the seat manufacturer. A built in child safety seat and three point seat belt for attendant safety.

COMPLY? YES _____ NO _____

4.3.1 SEAT, CPR

A sidewall seat will be mounted in the center of the left wall with lift up seat for storage below. This seat will be comprised of three molded/contoured seamless vacuum formed vinyl cushions. A seat belt shall be provided for attendant safety. Cushions shall be vacuum-formed seamless. One-inch cushions shall be installed on three sides of Head area.

COMPLY? YES _____ NO _____

4.4 UPHOLSTERY

All door panels, seat cushions, and protective pads shall be constructed of fire-retardant foam, covered with minimum 40-ounce vinyl. All seat and back cushions in the patient compartment shall be vacuum-formed seamless.

COMPLY? YES _____ NO _____

4.5 HEADLINER

The headliner shall be constructed of padded white vinyl in three sections, with the center section being removable to gain access to wiring.

COMPLY? YES _____ NO _____

4.6 PANELING, INTERIOR

Exposed surfaces shall be mar, dent and scratch resistant. Walls shall be covered with high pressure Wilsonart laminate material.

COMPLY? YES _____ NO _____

4.7 GRAB RAIL, OVERHEAD

A full-length stainless-steel handicap style 1 1/2" diameter grab rail shall be installed on patient compartment ceiling. This rail shall be capable of supporting a minimum of 300 pounds. A second full length stainless-steel handicap style 1 1/2" diameter grab rail shall be installed on patient compartment ceiling over the squad bench. These rails shall be treated with Agion Anti-Bacterial Coating.

COMPLY? YES _____ NO _____

4.8 GRAB HANDLES, DOORS

All entry doors will have a matching heavy duty stainless steel handicap style 1 1/2" "V" bar grab handle that will be securely mounted slightly below the window. These Bars shall be treated with Agion Anit-Bacterial Coating.

COMPLY? YES _____ NO _____

4.9 STAINLESS STEEL WALL

The lower left aisle wall shall be .060 stainless steel from action shelf down to floor. The stainless steel shall be installed after the floor is in place and installed over the edge of the floor. This will eliminate the seam and possibility of fluid retention.

COMPLY? YES _____ NO _____

4.10 COT MOUNT

A Stryker "Performance LOAD" Manual Cot Fastener shall be installed.

COMPLY? YES _____ NO _____

4.11 INSULATION

The entire patient compartment, walls and ceiling, shall be blanketed with two layers of reflectix insulation. In between the two layers of reflectix insulation shall be a 2" polystyrene insulation to provide exceptional insulation and sound deadening qualities. To make certain the insulation stays in place, all insulation in the vertical walls is to be glued in place

COMPLY? YES _____ NO _____

All exterior compartment and patient compartment entry doors shall be insulated with a single layer of R-14.5 reflectix insulation. Additionally, there shall be a single layer of 2" polystyrene insulation installed in each door.

In addition there will be additional sound deadening under the floor, the back of all exterior compartments and deluxe insulation on the side entry step.

COMPLY? YES _____ NO _____

4.12 CLIMATE CONTROL

Rear climate control shall be floor mounted in driver side bulkhead cabinet to shorten refrigerant and anti-freeze hoses and eliminate vertical circulation. Condensation from high humid conditions shall drain directly through floor. Air intake shall be at floor level; output shall be at ceiling level with return air at floor level for increased airflow. Return air shall be filtered.

COMPLY? YES _____ NO _____

The unit shall be a Pro-Air with 32,000 BTU cooling capacity and a 35,000 BTU heating capacity. The blower motor shall have permanent magnets and be capable of delivering 630 CFM of airflow. It must be removable without removing entire heat/cool unit and without disconnection of any coolant lines.

COMPLY? YES _____ NO _____

A digital thermostat shall control both heating and cooling with a minimum 3-speed manual fan control. The thermostat shall be located on the action wall.

COMPLY? YES _____ NO _____

4.13 SHARP'S / WASTE CONTAINER

An "A" bar with sharps and waste will be located at the head end of the squad bench.

COMPLY? YES _____ NO _____

4.14 OXYGEN OUTLETS

Oxygen system shall be plumbed with conductive hose from oxygen compartment to two Allied, Ohio style oxygen outlets in the action area, and a third over the cot mounted in the ceiling.

COMPLY? YES _____ NO _____

4.15 O2 GAGE

A remote O2 gage analog will be located in the action area allowing the attendant to easy check main O2 contents.

COMPLY? YES _____ NO _____

4.16 GLOVE HOLDERS

A 4 box glove holder will be located above the curb side entry door.

COMPLY? YES _____ NO _____

5.0 EXTERIOR BODY

5.1 REAR WHEEL WELL TRIM

The rear wheel wells shall be trimmed with polished Stainless Steel Fenderettes that shall be attached to the body with stainless steel fasteners. There shall be a gasket placed between the aluminum body and the stainless steel fenderette for isolation of the dissimilar metals.

COMPLY? YES _____ NO _____

5.2 RUB RAILS

There shall be bolt on clear anodized extrusion rub rails with a wall thickness of (.187). They shall run the full length of the body and be mounted at the base of each side of each side of the body. The rub rails shall be spaced ¼ inch from the body with Delrin spacers.

COMPLY? YES _____ NO _____

5.3 BUMPER, REAR STEP

The rear step assembly shall be constructed of 1 ¾" X 1 3/4" tubular steel frame bolted to the chassis frame. The center section shall be non-skid grip strut aluminum and shall "Flip-Up" to allow adequate clearance of the Cot Wheels while Cot is being loaded. The ends shall be constructed of diamond plate end caps with 18" X 4" X 4" heavy-duty rubber dock bumpers.

COMPLY? YES _____ NO _____

5.4 DOOR STEP, SIDE

The side doorstep shall be formed of aluminum diamond tread and shall be flush sweep out style. Antiskid tape, 2-inch-wide, is to be laid the full width of the step just inside the entry door. Additionally, there shall be a formed 3-inch, full width stainless steel floor protection strip installed over the flooring at the top of the step. An LED step well light is to be installed on the forward vertical wall of the step well with the wiring to be pulled through the backside of the step well. The Lower Side of the step well shall be covered with Hush Mat to reduce road noise.

COMPLY? YES _____ NO _____

5.5 STONE SHIELDS

Diamond plate stone shields shall be installed on the front edge of the module body directly behind the cab at skirt level. These shields shall extend up the front of the box approximately 30 inches.

COMPLY? YES _____ NO _____

5.6 EXTERIOR COMPARTMENT CONFIGURATION
#1 OXYGEN / BACKBOARD COMPARTMENT

The left front (street side) exterior compartment shall contain a “Zico” nylon triple collar bracket to house one “M” or “H” size oxygen cylinder. The O2 tank is to be stored in the aft side of the compartment. There shall be an interior access door to allow the attendant to turn the oxygen tank valve on/off from the patient compartment. A separate O2 compartment light shall be provided for the purpose of viewing the tank O2 gauge and be switched on/off from the action panel. A wrench is to be provided for changing the tank regulator. This wrench is to be secured in the compartment with a cable and mounted to the compartment wall when not being used.

This compartment shall have backboard storage on the side of the compartment. The forward side of the compartment is to provide storage for two (2) backboards and shall have rubber “nerf” strips, two (2) on the floor and two (2) on the back wall of the compartment, for the protection of the backboards. There shall be a seat belt style-retaining strap installed for the purpose of securing the backboards.

On the forward wall of the compartment there shall be a removable panel approximately 8” square in size located opposite of the shoreline plug. This panel, when removed, provides access to the shoreline plug when service or replacement is required.

COMPLY? YES _____ NO _____

#2 GENERAL STORAGE COMPARTMENT

This compartment shall be located street side between the #1 compartment and the left side drive wheels and is to be used for general storage. There is to be a single door on this compartment.

There shall be a full width, full depth aluminum “pan” style storage shelf installed in the compartment. The shelf is to be mounted on two (2) sets of infinitely adjustable uni-strut tracks at each end of the shelf with rubber matting covering the topside of the shelf.

COMPLY? YES _____ NO _____

#4 SPARE TIRE COMPARTMENT

The left rear street side exterior compartment shall be for the storage of the spare tire. A bracket is to be installed in the compartment for the securing of the tire. There is to be a single door on this compartment.

COMPLY? YES _____ NO _____

#5 BACKBOARD STORAGE COMPARTMENT

The right rear curbside exterior compartment is to be located rearward of the right side rear wheels extending to the right rear corner of the body. This compartment is to provide exterior storage for backboards and a Stryker stair chair. A bar will be located at a height low enough from the top of the cabinet to stop backboards from falling out.

There shall be a full length aluminum divider with a fixed shelf on its right side just above where the Stryker stair chair will be stored. A stair chair bracket will be supplied and installed by the awarded vendor to aid in the loading of the stair chair. An LED light will illuminate this compartment.

COMPLY? YES _____ NO _____

#6 GENERAL STORAGE

A storage compartment with a single door will be located forward #5 it will be made as large as possible.

#7 ALS IN/OUT ACCESS

There shall be a single full-length door located at the right front (curbside) allowing for In/Out access to the ALS interior cabinet.

COMPLY? YES _____ NO _____

5.7 LIGHTING, DOT

The vehicle shall be equipped with jewel affect daytime running headlights and two amber park/turn lights on the front. The Module Body shall have at least 11 Innovative Brand LED clearance lights with "each light having four (2) LED's and grounded via a ground wire". Each top front corner shall have amber lights mounted on the front and side of each corner. There shall be three red lights at the top rear center of the module. Each top rear corner shall have red lights mounted on the rear and side of each corner. There shall be three amber lights mounted on the center front of the cab roof.

The rear of the module box shall have two Whelen 4" x 6" series amber LED arrow turn lights, two Whelen 4" x 6" series red LED tail/brake lights, two Whelen 4" x 6" series LED reverse lights. They will be mounted in chrome flanges on the modular body above the diamond plate in the above listed order top to bottom. Mounting of these lights shall be as far outboard on the rear of the module body as possible.

All lights shall be as per I.C.C. requirements.

COMPLY? YES _____ NO _____

5.8 RUNNING BOARDS

Diamond plate running boards with grip strut step inserts shall be supplied and installed by the awarded vendor.

COMPLY? YES _____ NO _____

5.9 MUD FLAPS

There will be front and rear mud flaps.

COMPLY? YES _____ NO _____

6.0 BODY FINISH

6.1 PAINTING PROCEDURE

An extensive 12-step painting process is to be followed and strictly adhered to as follows:

Prior to paint all doors, chrome trim, lights, handles, steps, and all other attached equipment shall be removed to assure the paint process covers the entire body. No Weather-stripping will be attached to the body during the paint process.

COMPLY? YES _____ NO _____

The entire outside of the body shall be sanded with a minimum of 180 grit sandpaper and cleaned and deburred of all rough edges. The entire body shall then be wiped clean with PPG DX436 wax and grease remover prior to painting.

COMPLY? YES _____ NO _____

The body shall then be coated with (1) coat of PPG Delfleet Evolution F3993 Epoxy Primer followed by (2) coats of PPG Delfleet Evolution F3975 Urethane Primer. Once the primer has been applied the entire unit shall be baked at 150 degrees for a minimum of 30 minutes. The primer shall then be sanded prior to the application of the topcoat.

COMPLY? YES _____ NO _____

Once the application of the primer has been completed, a topcoat consisting of (2) coats of PPG Delfleet Evolution FBC Color Coat is applied followed by (2) coats of PPG Delfleet Evolution F3921 Clear coat for a durable long lasting high gloss finish. The entire unit shall then be baked a second time at 160 degrees for a minimum of (45) minutes.

COMPLY? YES _____ NO _____

After the body paint procedure is completed the second color shall be top of the module and window line up on the cab. This is to be painted with (2) coats of PPG Delfleet Evolution FBC Color Coat followed by (2) coats of PPG Delfleet Evolution F3921 Clear Coat.

COMPLY? YES _____ NO _____

The final step shall then be to apply Rubberized undercoating to the underside of the cab and the body in strict adherence to Ford QVM guidelines and the KKK-1822- E Specification just prior to delivery.

A final wet sand and buff will be performed on all sides excluding the top to offer the best paint finish due to the red and black color.

COMPLY? YES _____ NO _____

Warranty shall be a full 5-year / 100,000-mile **NON-PRORATED** Modular Paint Warranty.

COMPLY? YES _____ NO _____

6.2 DECALS

A 6" black reflective belt with a ½" gold reflective above and below this belt along with additional ½" gold reflective on the transition between and the red and black paint.

In addition there will be clear guard material applied to the front of the ambulance to allow for bugs and road grime to wash off easier. A clear bar will be installed as well to the front hood to assist in bugs and road grime. The awarded vendor will supply all decals and clear guard along with installation.

COMPLY? YES _____ NO _____

7.0 PAYLOAD

7.1 PAYLOAD

There shall be a minimum of 3920 lbs. of usable payload. Weight determination shall be made with standard unit, full complement of fuel, fluids and spare tire. Any optional equipment shall be deducted from payload.

COMPLY? YES _____ NO _____

8.0 MISCELLANEOUS EQUIPMENT

8.1 DECALS, NO SMOKING & OXYGEN EQUIPPED

There shall be two NO SMOKING and two OXYGEN EQUIPPED signs, one each in the cab and one each in the patient compartment.

COMPLY? YES _____ NO _____

8.2 I.V. HOLDERS

There shall be two recessed, swing-up dual I.V. bag holders mounted in patient compartment headliner. The holders shall be Cast Products # IV-2009 (KKK-1822-F Approved).

COMPLY? YES _____ NO _____

8.3 ANTENNA PRE-WIRE

One pre-wire antenna coaxial cable delivered to the drivers switch console. There shall be a raceway provided to be able to run radio cable from the cab to the patient compartment.

COMPLY? YES _____ NO _____

8.4 WIRING SCHEMATIC

There shall be a complete **SPECIFIC** wiring schematic showing all circuits, including optional equipment included in the owner's manual.

COMPLY? YES _____ NO _____

9.0 WARRANTY

9.1 WARRANTY COVERAGE (See Warranty Certificate for Details)

Three year / 36,000 mile Product Conversion Warranty.
Six-year / 72,000-mile Electrical System Warranty.
Five-year / 100,000-mile **NON-PRORATED** Modular Paint Warranty.
LIFETIME Modular Body Structure Warranty.

There shall be no pro-rating allowed for any portion of the above listed warranties.

COMPLY? YES _____ NO _____

10.0 REQUIREMENTS OF THE MANUFACTURER

10.1 KKK-A-1822-F CERTIFICATION

This unit shall meet all KKK-A-1822-F specifications and the manufacturer shall have current documentation of compliance with all KKK-A-1882-F standards and all subsequent revisions.

COMPLY? YES _____ NO _____

10.2 FORD QVM PROGRAM

This unit shall meet all Ford QVM Program requirements and the manufacturer shall be a current member in good standing of the Ford QVM Program.

COMPLY? YES _____ NO _____

10.3 AMD / NTEA MEMBERSHIP

The manufacturer shall be a current member in good standing of the Ambulance Manufacturers Division (AMD) of the National Truck & Equipment Association (NTEA). The unit shall be built in compliance with all AMD "Standards".

COMPLY? YES _____ NO _____

10.4 REMounting AND REFURBISHING

The manufacturer must be capable of remounting and / or refurbishing used units. The facilities for such purpose shall be located at the manufacturer's primary location. The subcontracting of remounting and refurbishing is strictly prohibited.

COMPLY? YES _____ NO _____

10.4 FORD POOL ACCOUNT PROGRAM

The manufacturer shall be a current member in good standing of the Ford Pool Account Program.

COMPLY? YES _____ NO _____

***NOTE THAT NO EXCEPTIONS ARE ALLOWED TO SECTION 9.1 THROUGH 10.5**