



TOWN OF
NORTH KINGSTOWN, RHODE ISLAND

FIRE DEPARTMENT
PUBLIC SAFETY BUILDING
8150 POST ROAD
NORTH KINGSTOWN, R.I. 02852

401-294-3346
401-294-4180 FAX

**INVITATION FOR BIDS
RESCUE VEHICLE**

Sealed proposals for the above will be accepted in the Office of the Purchasing Agent, Town Municipal Offices, 100 Fairway Drive, North Kingstown, RI 02852, until **11:00am on Friday, November 10, 2017**, and will then be publicly opened read aloud.

NO BIDS WILL BE ACCEPTED AFTER THE FRIDAY, NOVEMBER 10, 2017, 11:00AM DEADLINE.

IT IS THE RESPONSIBILITY OF THE PROSPECTIVE BIDDERS TO MONITOR THE TOWN'S WEBSITE FOR ANY SUBSEQUENT BID ADDENDUM. NO ADDENDA WILL BE ISSUED OR POSTED WITHIN FORTY-EIGHT (48) HOURS OF THE BID SUBMISSION DEADLINE.

The bid will be evaluated as to R.I.G.L. 45-55-5. (2) "Competitive Sealed Bidding" and the award shall be made on the basis of the lowest evaluated or responsive bid price.

Specifications may be obtained at the Purchasing Agent's Office at address listed above. A certificate of Insurance showing \$1 million General Liability and \$1 million Any Auto, with the Town being named as an additional insured, Worker's Compensation, with a waiver of subrogation will be required of the successful bidder.

The Town of North Kingstown reserves the right to reject any or all proposals or parts thereof; to waive any formality in same, or accept any proposal deemed to be in the best interest of the Town.

The Town of North Kingstown will provide interpreters for the hearing impaired at any pre-bid or bid opening, provided a request is received three (3) days prior to said meeting by calling 294-3331, ext. 142.

Purchasing Agent

SELECTION CRITERIA

The bid will be evaluated as to R.I.G.L. 45-55-5.(2) “Competitive Sealed Bidding”, and the award shall be made on the basis of the lowest evaluated or responsive bid price.

The following factors will be considered in determining the lowest evaluated or responsive bid price:

Bid Price;

Meets or exceeds bid specifications;

Delivery date;

Warranty/Guarantee;

**TOWN OF NORTH KINGSTOWN, RHODE ISLAND
INFORMATION FOR BIDDERS**

ARTICLE 1. RECEIPT AND OPENING OF BIDS

Sealed bids must be submitted in SEALED ENVELOPES, addressed to the Purchasing Agent, Town Hall, 100 Fairway Drive, North Kingstown, Rhode Island 02852, and clearly marked with the name of the item bid, and the date and time of opening. Bids will be received by the Purchasing Agent up to the specified time as noted on the Invitation to Bid, and publicly opened and read aloud at the specified time.

It is the bidder's responsibility to see that his bid is delivered within the time and at the place prescribed. Proposals received prior to the time of opening will be securely kept unopened. No responsibility will attach to any officer or person for the premature opening of a proposal not properly addressed and identified.

Any bid received after the time and date specified shall not be considered, by messenger or by mail, even if it is determined by the Town that such non-arrival before the time set for opening was due solely to delay in the mails for which the bidder is not responsible. Conditional or qualified bids will not be accepted.

ARTICLE 2. PREPARATION OF BID

Each bid must be submitted on the prescribed form. All blank spaces for bid prices must be filled in, in ink or typewritten, both in words and figures. Erasures or other changes must be explained or noted over the signature of the bidder.

Each bid must be submitted in sealed envelopes, clearly labeled, so as to guard against opening prior to the time set therefore.

The Town may consider any bid not prepared and submitted in accordance with the provisions hereof and reserves the right to reject any or all proposals in whole or in part, toward any item, group of items, or total bid; to waive any technical defect or formality in same, or to accept any proposal deemed to be in the best interest of the Town.

ARTICLE 3. TELEGRAPHIC MODIFICATION

Telephonic, telegraphic or oral bids, amendments or withdrawals will not be accepted.

ARTICLE 4. WITHDRAWAL OF BIDS

Bids may be withdrawn personally or by written request at any time prior to the time specified for the opening. Bids may be modified in the same manner. Negligence on the part of the bidder in preparing the bid confers no right of withdrawal or modifications of his bid after such bid has been opened.

ARTICLE 5. QUALIFICATIONS OF THE BIDDER

The Town reserves the right to request each bidder to present evidence that he is normally engaged in purveying the type of product or equipment bid on. No bid shall be

considered from bidders who are unable to show that they are normally engaged in purveying the type of product or equipment specified in the bid proposal.

To receive full consideration, the bidder must submit literature and necessary details, when applicable, on the material or service he proposes to furnish in order that the Town may have full information available when analyzing the proposals.

ARTICLE 6. OBLIGATIONS OF THE BIDDER

At the time of opening of bids, each bidder will be presumed to have inspected the Specifications and Contract Documents (including all addenda) which has been sent to the address given by such bidder. The failure or omission of any bidder to receive or examine any form, instrument, or document shall in no way relieve any bidder from any obligation in respect to his bid.

Any exceptions or deviations from the provisions contained in this Specification must be explained in detail and attached to proposal. If such deviations do not depart from the intent of this notice and are in the best interest of the Town, the proposal will receive careful consideration.

ARTICLE 7. PRICES

Bidders shall state the proposed price in the manner as designated in the Bid Proposal Form. In the event that there is a discrepancy between unit prices and the extended totals, the unit prices shall govern. In the event that there is a discrepancy between the price written in words and written in figures, the prices written in words shall govern.

The prices in this bid shall be irrevocable for ninety (90) days, or until the bid is awarded by the Town Council. After award by the Town Council, said prices shall then remain firm for the duration of the Contract.

ARTICLE 8. TAX EXEMPTIONS

The Town is exempt from payment of the Rhode Island Sales Tax under the 1956 General Laws of the State of Rhode Island, 44-18-30 Para. I, as amended. The Town is exempt from payment of Federal Excise Taxes. The prices bid must be exclusive of taxes and will be so construed. Exemption certificates will be completed as required by the successful bidder.

ARTICLE 9. CONTRACT PERIOD AND TERM OF AGREEMENT *(When Applicable to Bid)*

Contract period: ONE (1) CALENDAR YEAR from date set in the Notice to Proceed, with options for years two and three awarded, contingent upon satisfactory performance by the vendor. If financially advantageous to the Town of North Kingstown, these contracts may be renewed or extended, from time to time, when agreed to, in writing, by both parties.

ARTICLE 10. LABOR REGULATIONS *(When Applicable to Bid)*

The following paragraphs regarding nondiscrimination in employment shall be included and become part of these specifications:

- a. Contractors shall comply with the provisions of the General Laws of Rhode Island and attention is called to Title 37, Chapter 13, Section 1-16, relative to the payment of wages, obligations and charges by Contractors on public works projects.
- b. Non-resident Contractors are subject to Section 44-1-6 of the Rhode Island General Laws, as amended. (OUT OF STATE CONTRACTORS.)
- c. The successful bidder will be required to comply with the Davis-Bacon Act (40USC 2 to a-7) as supplemented by Department of Labor regulations (29CFR Part 5).
- d. The successful bidder will be required to comply with the Contract Works Hours and Safety Standards Act (40 USC 327-330) as supplemented by Dept. of Labor Regulations (29CFR, Part 5).
- e. The successful bidder will be required to comply with Executive Order 11246, entitled Equal Employment Opportunity, as amended, and as supplemented in Department of Labor regulations (41 CFR Part 60).
- f. The successful bidder will be required to comply with the Copeland “Anti-Kickback” Act (18 USC 874) as supplemented in Department of Labor regulations (29 CFR, Part 3).
- g. The successful bidder will be required to comply with the Safety and Health regulations (29 CFR, Part 1926 and all subsequent amendments) as promulgated by the Department of Labor.
- h. The successful bidder will be required to comply with Title VI of the Civil Rights Act of 1964 (P.L. 88-352).

ARTICLE 11. INSURANCE

The Vendor shall assume responsibility and liability for all injuries to persons or damages to property, directly or indirectly due to, or arising out of, his operations under the contract and shall be responsible for the proper care and protection of all work performed for the Town.

The Vendor shall also indemnify and save harmless the Town of North Kingstown against any and all claims of whatever kind and nature due to, or arising out of, his breach or failure to perform any of the terms, conditions, or covenants of the contract resulting from acceptance of his bid.

The Vendor shall furnish the Purchasing Agent with certificates of insurance from companies acceptable to the Town of North Kingstown. All insurance companies listed on certificates must be licensed to do business in the State of Rhode Island. The Vendor shall provide a certificate of insurance as specified in the bid specifications. Contracts of insurance (covering all operations under this contract) shall be kept in force until the contractor’s work is acceptable by the Town.

The limits of the insurance must be at least in the amounts specified below;*

1. Commercial General Liability-Occurrence Form \$1,000,000/\$1,000,000.
2. Automobile Liability - \$1,000,000. With both of the above naming the Town as additional insured.
3. Worker’s Compensation (if legally allowed and available). Waiver of subrogation applies to Worker’s Compensation

The Vendor shall secure, pay for and maintain insurance as necessary to protect himself against loss of owned or rented capital equipment and tools, with provision for waiver of subrogation against the Owner.

ARTICLE 12. LAWS, ORDINANCES, AND CODES

All applicable Federal and State Laws, Ordinances and Codes of the Town of North Kingstown and regulations of all authorities having jurisdiction over this Project shall apply to this contract the same as though written herein in full.

The Town of North Kingstown will not award the Contract to any Contractor who is, at the time, ineligible under the provisions of any applicable regulations issued by the Secretary of Labor, United State Department of Labor, or is not qualified under applicable Ordinances of the Town of North Kingstown, or the laws of the State of Rhode Island.

TOWN OF NORTH KINGSTOWN, RHODE ISLAND
INSURANCE REQUIREMENTS
(When Applicable to Bid)

The Town's Insurance requirements are as follows:

One million dollars general liability and one million dollars auto, both naming the Town as additional insured.

Worker's Compensation, with a waiver of subrogation

(If the vendor does not have worker's comp, they need to fill in an Independent Contractor form which they send to the State of RI and they in turn, will send us a notification that the person/firm is an Independent Contractor. They stay as that until they let the State know that they are no longer that status.) On the State website is a list of Independent Contractors by Town and by vendor's name

(See Town Ordinance 08-01 dated 1-14-2008)

There is also specialized insurance required on certain projects

Asbestos liability, one million dollars, with the Town named as additional insured for the obvious- Asbestos Removal

Lead Remediation requires \$5,000,000.00 Annual aggregate

Any building projects over \$500,000.00 requires us to notify Colleen Bodziony at The Trust, and Builder's Risk insurance may/shall be required on a building construction project. You may need to call and ask her before the bid specifications are finalized.

Architectural and Engineering projects require one million dollars professional liability, also called Errors and Omission policy.

TYPE I MEDICAL RESCUE SPECIFICATIONS

NORTH KINGSTOWN R.I. FIRE DEPARTMENT

October 2017

DESIRED VEHICLE DIMENSIONS:

Bidder Complies YES _____ NO _____

Overall Height: 115"
Overall Width: 99"
Overall Length: 302"
Module Length: 170"
Module Headroom: 75"

CHASSIS SPECIFICATIONS

Bidder Complies YES _____ NO _____

2018 FORD F450-Super Duty, 4x4, 108" CA, XLT Trim

Ford F450 Chassis Cab Four Wheel Drive
Wheelbase 193" - 108" CA Dual Rear
G.V.W. 16,500 lbs.

Powertrain/Functional:

Engine: 6.7L "Powerstroke" Turbo Diesel V8 300hp @2800 RPM, 660 lbs. torque @1600 RPM
Single Stage Turbo Charger
Instant Start Glow Plugs for quick engine starts
Diesel Emissions Fluid 6 gallon tank - mounted behind frame rail on driver's side
Intelligent Oil Life Monitor
Engine block heater
Water Pump with 125 gallons per minute flow rate

Transmission: Heavy Duty "TorqShift" Six Speed Select Shift Automatic with overdrive

Electronic Shift on the Fly with automatic locking front hubs with manual override.

Brakes - 4 wheel Anti-lock Braking System
Traction Control - DRW Models

Fuel Capacity: 40 gallon single tank (aft axle)

Front Axle: 7,000 lb. Monobeam, Dana Super 60
Rear Axle: 12,000 lb. Full Floating Dana S110

Suspension:

Heavy Duty Front Coil Springs (7,000 lbs.)
Rear Leaf Springs, main & auxiliary (12,000 lbs)
Shock absorbers, front & rear 1.38"
Stabilizer bar, front and rear
Power Steering
Steering Damper

Instrumentation: multifunction switch message center - Gauges: Oil Pressure, Coolant Temperature, Trans Temp, w/Indicator Lights, Tachometer, Trip Odometer, Turbo boost, water in fuel warning light, low/contaminated diesel exhaust fluid warning lights, glow plug preheat indicator

Ambulance Prep Package - 47A
Rear axle 4.10 Limited Slip #X4N

Auxiliary transmission oil cooler
Dual OEM HD Alternators (total 377 amps) 67B
Dual 750 CCA Batteries
Stationary elevated idle control (SEIC)
Operated Commanded Regeneration (OCR) #98R

Safety/Security:

Driver/Passenger frontal and side air bag/curtain
Passenger side air bag deactivation switch
Belt-Minder - chime & flashing warning light on instrument panel if belts not buckled
Safety Belts - color coordinated with height adjustment (front outboard seating positions only)
SOS Post-Crash Alert System
Securi-lock Anti-Theft Ignition

Tires:

Front & Rear LT225/70R 19.5G All Season (6) #TFB
Spare Tire: LT225/70R 19.5G (All Season)
Wheels; 10 hole Disc, 19.5" x 6" Aluminum

Exterior Trim:

Dual Electric Horns
Chrome Front Bumper & Grille Surround
Mirrors: Black POWER Telescoping Trailer tow w/Power-Heated Glass, integrated clearance lights and two way fold away
Front Tow Hooks
Lights - roof/marker clearance lights
Under Hood Service Light
Dual Beam Jewel Effect Headlights

XLT Interior Cab Trim: #653A

Air Conditioning
Cloth Headliner, Map Pockets
AM/FM Radio w/CD/Mp3 Player/Clock
SYNC3 8" LCD Productivity Screen in IP Cluster (#918) with OEM Backup Camera
Overhead Console with dual storage bin and map lights
Interval Windshield Wipers
Tilt Steering Wheel/Speed Control - steering wheel mounted
Power Windows/Door Locks
Black Vinyl Floor
Headlights on audible alarm
Dual overhead Map Light
Daytime Running Lights
Front seats, high series cloth - 40/20/40 #3S

Color Scheme:

Exterior Color: Vermillion Red. Interior Color: MEDIUM EARTH GRAY

EXTERIOR, ALUMINUM BODY CONSTRUCTION

FRAMES: Bidder Complies YES _____ NO _____

The module body shall consist of an electric welded, unitized aluminum roll cage structure throughout. The framework shall consist of six individual frames that are constructed in such a manner to insure squareness and flatness before being assembled into a box configuration.

MATERIAL: Bidder Complies YES _____ NO _____

All material used on any frame member, corner and upper cove shall be high strength aluminum alloy. This alloy shall be 6061-T6 with tensile strength of 45,000 psi. The use of lesser materials such as 6063 is not allowed due to its lesser mechanical properties. The ultimate strength of 6061-T6 is approximately

25% greater than 6063 alloy. Material certifications showing 6061-T6 alloy shall be provided upon request to verify the use of this material for all frame members.

WELDING: Bidder Complies YES _____ NO _____

All welding done on any part of the frame structure shall be done by welders tested in welding this alloy and type of structure. Welders testing certifications shall be provided upon request. All butt welds shall have 100% weld penetration using a filler wire approved for this alloy aluminum. All welding shall be done in accordance with American Welding Society (AWS), Structural Welding Code.

FLOOR FRAME: Bidder Complies YES _____ NO _____

The main floor structure shall consist of a primary load bearing support frame. This primary frame shall consist of 2"x3"x.250" square wall tubular aluminum. This primary frame is of critical importance to the structural integrity of the module. The use of channel sections or frame members less than 2" x 3" x .125" is not acceptable due to its moment of inertia and section modulus calculations are less than minimum acceptable. The secondary support frames of the floor frames shall consist of 2"x 2" x .250" (square) and 1 1/2" x 2" x .125" (rectangular) wall tubular aluminum. Areas between exterior compartments and sub-floor support members shall be a minimum of 2"x 2" x .250 (square).

A heat shield made of 22 GA galvanized steel is attached to the underside of the Floor Frame. The shield is creased for stiffness and deflects the heat of the exhaust from the modular body. The heat shield is required for compliance with Ford QVM and good practice design.

VERTICAL FRAMES:

FRAMES, Left and Right Sides: Bidder Complies YES _____ NO _____

The vertical left and right side frames shall consist of heavy duty custom aluminum extrusion members. The vertical corner and horizontal upper "**Main Beam**" shall consist of an extrusion with the minimum dimensions of 5 3/4 by 3 7/8 inches with a cross section across the web of .1875 inches. Built into the inside edge of the vertical and horizontal section shall be an area where the exterior door seal shall mate. This door jamb area shall be designed into, and be part of the main corner extrusion. Door jamb sections which are welded in place are unacceptable due to the possibility of the welds cracking which in turn leads to door and or exterior paint cracking and failure. The inside door jamb which is part of the structural member (not a welded section) shall have minimum dimensions of 1 inch wide by 1 1/4 inches deep and have minimum side vertical wall thicknesses of .1875 inches. This door seal and jamb section shall be recessed behind the exterior surface of the body approximately 7/8 of an inch to allow the door seal to be placed outboard of the door latches and provide for a full uninterrupted hollow core door seal mounted on every door. Each door of the vehicle shall seal on this integrated section of the extrusion. The outer exterior mounted finish trim shall be sealed to the body during fabrication. The sealant used shall be a high strength automotive product which can be painted. All parts which utilize sealant shall not be structural members but just trim sections. The FMVSS 206 Rated door closure bolt shall be mounted directly to this structural member and not to a welded door jamb section. Door alignment shall be maintained by discrete alignment grooves extruded in the custom shape. This designed in feature eliminates the need for excessive adjustment allowance which could become maintenance issues at some future time. The area of the structural member which is in contact with the roof box beams shall incorporate a 1/2 inch flange to carry the load of the roof structure and resulting static load when applied. This support flange is utilized to prevent the need for the roof and roof structure to be held in place by the welds only.

The main support, structural members around the door openings shall incorporate a built in door seal and jamb surface similar to the one found around the main corner extrusion, with all the strength and design features the same. Two distinctly different types of structural members shall be used for different types of door configurations. Doors which are placed in the modular body which are not adjacent to any other door shall utilize an extrusion with the overall dimensions of 3 inches wide by 2 inches deep. This extrusion shall form the two vertical and two horizontal door seal, and jamb surfaces. Doors of this type which are placed on the forward most or rear most positions of the body, shall utilize the main corner extrusion with its built in door seal to act as one side of the structural door seal and jamb surface. For the

same reason a door which extends the full height of the modular body shall utilize the upper most main corner extrusion for the top horizontal door seal and jamb surface. Door configurations which have two doors adjacent to one another shall utilize a structural body extrusion with minimum dimensions of 4 inches wide by 2 inches deep. Between each door shall be a minimum of a 2 inch structural wall and floor support. Under no circumstances shall two adjacent compartments not include this 2 inch structural member. Similar to previous door structural extrusions this member shall incorporate two built in door sealing surfaces without the need for welding additional parts as stated previously.

The remaining structural members of the vertical side frames shall utilize 2 inch by 2 inch by .125 inch thick wall and 1 1/2 inch by 2 inch by .125 inch thick wall structural box beam members. All members of the side vertical frames shall be placed at a maximum of 12 inches on center. Closer spacing shall be utilized in areas of critical strength requirements. Along the floor line, shall be 2 inch by 2 inch by .1875 inch structural angle attached to the side frame, which then during assembly into a module shall be fully welded to the floor frame. These members shall act as the main attachment point for the side frames, where the vertical frames meet the floor frame, and at this point of attachment full welds shall be utilized.

VERTICAL FRAMES, Front and Rear: Bidder Complies YES _____ NO _____

The front and rear frames shall be fabricated utilizing the same main structural corner extrusion as the side vertical frame along the horizontal top edge. The remaining structural members of this frame shall utilize 2 inch by 2 inch and 2 inch by 1 1/2 inch by .125 inch structural box beam members. These structural members shall be placed on a minimum of 20 inches on center. A closer spacing shall be utilized in areas of critical strength. Rear facing door openings shall utilize custom aluminum extrusions in place of box beam members as required. The door openings shall be exactly as specified for the doors located on the vertical side frames as described previously.

ROOF FRAME: Bidder Complies YES _____ NO _____

The roof frame of the vehicle shall be fabricated from 2 inch by 1 1/2 inch by .125 inch box beam structural members. The transverse frame members shall be spaced a maximum of 12 inches on center.

MODULE ASSEMBLY: Bidder Complies YES _____ NO _____

The six frames as previously stated shall be assembled into a module, including the floor, front, rear, two sides and roof sub frame before any of the exterior skin is applied. The structural frame work shall be a self-supporting body and not require the use of the exterior skin for structural integrity. The framed body, without the skin shall be capable of supporting the required static load of the vehicle per A.M.D. 001 specifications.

The floor frame shall be welded to the two vertical side frames at the area of the floor, in front and behind the wheel box area. This welding shall be 100% continuous in these areas. The full perimeter welding and center bonding of the exterior panels shall enhance the overall strength of the modular body.

SIDE IMPACT PROTECTION

BODY PROTECTION Bidder Complies YES _____ NO _____

Per Federal Motor Vehicle Safety standards, the vehicle shall be designed to protect the occupants or equipment from side impacts. This shall be accomplished by: (a) Two side impact rails with minimum dimensions of, 2 inch by 5 inch by .125 inch 6061-T6 aluminum alloy, structural box beam member located approximately 24 inches from the lower side rail; and approximately 18 inches from the upper side (b) full structural members which extend across the body in the transverse direction between the compartments. Modular bodies that do not provide this protection at each compartment location shall be cause for rejection of the vehicle.

MODULAR BODY DOOR PROTECTION Bidder Complies YES _____ NO _____

In addition to the vertical body sides, each door with a vertical height greater than 30 inches, on the left and right sides of the vehicle shall incorporate a 2 inch by 5 inch by .125 inch 6061-T6 aluminum alloy, structural box beam members. Each member shall be welded to the interior door extrusions. The

structural members shall be placed approximately 24 inches from the lower side rail. There shall be no exceptions to side impact protection in modular body doors.

EXTERIOR PANELS: Bidder Complies YES _____ NO _____

The two sides, front and rear shall be covered with .125" thick 5052-H34 stretcher leveled aluminum alloy sheet with tensile strength of 38,000 psi. The center areas of the sheets shall be applied using "Very High Bond" structural bonding tape. Before any tape is applied to the structure, both the sheets and the structure shall be thoroughly cleaned with an approved solvent. In addition to the structural bonding tape the exterior skin shall be welded along the perimeter corners and along all door openings. This welding is only done in areas that will not show dimple on the finished body module. The side panels of the vehicle shall be single piece and not welded or fabricated.

Additional welding shall be done at the lower rub rail area where the body exterior panels meet the lower structural support members. This welding is done to completely bond the exterior panel to the substructure in an area where weld dimples will not show on the finished vehicle.

ROOF SHEET: Bidder Complies YES _____ NO _____

The roof sheet shall be a one piece sheet of .125" 5052-H34 aluminum. There shall be no seams in the roof panel or any overlapping seams. The roof sheet shall be fully welded to the roof sub frame from the inside. The outside perimeter of the roof sheet where it meets the upper cove shall be 100% welded prior to painting. This 100% welding eliminates the need for caulks or sealers and the possibilities of water leaks into the body.

CORNER AND ROOF CORNER EXTRUSIONS: Bidder Complies YES _____ NO _____

The exterior body corners and coves shall be an extruded aluminum section made of 6061-T6 aluminum. Both the corners and roof corner extrusions shall have a 1 5/8" radius hollow extrusion design with an inside flat mating surface. The exterior surface shall be designed to form a smooth transition at all corners of the body. The corners shall be designed in such a way as to provide an interlocking surface with the "Main Beam" extrusion. This surface contact shall provide a weld surface to attach the corners to the main beam. The process of attachment shall include threaded mechanical fasteners to pull the two surfaces tight prior to the welding. This provides a completely tight interface surface. To enhance the corner waterproof integrity a recessed sealant groove shall be incorporated into the exterior flanged surface which is in contact with the body and roof exterior panels. This groove allows the surfaces to be sealed to prevent water infiltration and pre-vent corrosion. The corners shall be designed so they are NOT a structural component of the body, but means to provide a smooth exterior transition and water tight surface. NO EXCEPTIONS. Designs which include an integral exterior corner surface/structural member are unacceptable.

CORNER CASTINGS: Bidder Complies YES _____ NO _____

The upper four corners of the module shall have a cast aluminum ball corner that matches the radius of the corner extrusions. This ball corner shall be completely 100% welded in place to pre-vent water leaks and finished to have a smooth transition at the corner.

EQUIPMENT MOUNTING LOCATIONS & REINFORCEMENTS: Bidder Complies YES _____ NO _____

Areas within the body that have equipment mounted or items bolted shall have additional structural-al members welded in place. The areas are as follows:

1. A .250" thick 1.25" by 2.5" structural angle to mount squad bench and seat belt restraints shall be installed on the side interior walls, including left side attendant seat. The entire assembly shall be tested and certified to F.M.V.S.S 210. Documentation shall be provided upon request.

2. Cot mounts shall be mounted/bolted to structural members welded within the floor structure. Cot mounts shall be tested and meet A.M.D. Standard A.M.D-004. Documentation shall be provided upon request.

3. Rear facing attendant seat pedestal shall be mounted to a reinforced structural channel members between the frame members of the floor structure. The entire assembly shall be tested to and certified to F.M.V.S.S. 210. Documentation shall be provided upon request.

4. The oxygen bottle retention bracket shall be bolted to a reinforcing structure within the storage compartment. Under No Circumstances shall an oxygen bottle be secured to interior cabinets only, they must always be bolted to a structural member of the module body. The entire assembly shall be tested to A.M.D-003.

5. Reinforcing plates for ceiling dome lights shall be installed between the roof frame members.

6. Double laminated reinforcing plates shall be installed in the front body frame for added strength in the areas where the body is bolted to the cab, in addition to structural angles in the front frame above the cab roof.

WHEEL WELL CONSTRUCTION: Bidder Complies YES _____ NO _____

The rear wheel well housings shall be designed to OEM manufacturers recommended clearances. The inner well shall be formed to follow the contours of the wheel and be fabricated from .125 aluminum sheet, and extend down to the lower body skirt level. Tolerances shall include clearance for full tire chains. All wheel well housings shall be completely sealed and undercoated prior to mounting the body. Structural Integrity Warranty

LIFETIME STRUCTURAL WARRANTY Bidder Complies YES _____ NO _____

Manufacturer will warranty to original purchaser that the new emergency vehicle body (exclusive of paint finish) is structurally sound and free from all structural defects of both material and workmanship, and further warrants that it will maintain such structural integrity for the life for the body. Warranty transferable subject to inspection by manufacturer. Bidder must include statement of warranty policy with bid. Finite Element Analysis

FINITE ELEMENT ANALYSIS Bidder Complies YES _____ NO _____

The Manufacturer shall certify that a Finite Element Analysis, using Solid Works Simulation, has been successfully performed to simulate side impact crash testing to the ambulance body. Loading shall conform to the Code of Federal Regulations, Title 49, Section 571.208, Section 8.2.2, Section 8.3.5, and Section 8.3.6.

The analysis shall show that the ambulance body will not experience a localized displacement of greater than 3 inches in critical areas. Documented proof of the analysis shall be provided at the time of the bid submission. Detailed specifications and the results of FEA shall be provided upon request. This analysis shall be in addition to certification of conformance to KKK-A-1822, revision F.

EXTERIOR COMPARTMENT CONSTRUCTION: Bidder Complies YES _____ NO _____

The exterior compartments shall be fabricated from fully enclosed aluminum sheets. The floor and ceiling material shall be fabricated from .125" aluminum sheets. Each compartment shall be its own independent unit with two sides, rear, top and bottom, and not share a common wall with an adjoining compartment. All vertical seams of the compartment shall be continuous one piece bend or 100% welded construction. Overlapping caulked vertical seams are unacceptable. Each compartment unit shall be welded to the inside of the structural door jamb. All compartments shall incorporate a flush sweep out design. No compartment floor lips or door gaskets shall come above or protrude into the compartment opening at all.

EXTERIOR COMPARTMENT FINISH: Bidder Complies YES _____ NO _____

The rear and two side walls of the interior surface of the exterior compartments shall be fabricated from 100% welded, .080" polished aluminum diamond plate panels.

EXTERIOR COMPARTMENT SHELVES: Bidder Complies YES _____ NO _____

All shelves as specified in exterior compartments shall be fabricated from .125" formed aluminum diamond plate with a 1" flange bent up on both the front and rear of the shelf. The shelf shall be mounted to heavy duty UNISTRUT shelving standards to allow for full adjustment. The front edge of the shelf shall be finished with a Trim-Lock snap on vinyl edging.

BODY MOUNTING RUBBER DONUTS, TYPE I: Bidder Complies YES _____ NO _____

The modular ambulance body shall be mounted to the chassis in such a manner to facilitate easy removal for future remounting with other manufacturer's vehicle chassis having the cab to axle dimensions. Mounting devices shall be ten (10) high strength 5/8" Grade 8 bolts five (5) on each side. Such bolts shall secure the body to the frame via rubber isolation mounting donuts. The rubber donuts shall be mounted to the frame rail of the chassis utilizing steel outriggers secured to the frame with (2) grade 8 bolts on the side and (1) through the donut.

Outriggers are fabricated from ASTM A36 3/8" steel plate with 1/4" steel gussets for maximum strength. Mounting surface for the donut has a reinforced thickness of 7/8". ASTM A36 Steel Plate has a Tensile strength of 58000 to 80000 PSI, and a Yield strength 36000 PSI minimum – which is equal to the Chassis frame specifications.

A full length 2" x 5" x 1/4" mounting channel is attached with Grade 8 bolts through the donut. Body floor frame is fully welded to the mounting channel at all cross members. Floor frame tubes are a minimum of 2 x 2 x .250 (1/4") tubular aluminum 6061T6. THIS MOUNTING SYSTEM MEETS OR EXCEEDS ALL QVM AND FMVSS REQUIREMENTS.

LOWERED SIDE SKIRTS: Bidder Complies YES _____ NO _____

The right and left side skirts of the body, forward of the rear wheels, shall be 3" lower than the right and left skirts aft of the rear wheels. This is to allow easier access into the side entrance door and the left side forward compartment of the vehicle.

STEPWELL COMPARTMENT/ INTERMEDIATE STEP: Bidder Complies YES _____ NO _____

Inside the side entrance door shall be a recessed step well compartment. The compartment shall extend into the body approximately 20 7/8" and be the full width of the side entrance door. An intermediate step shall be fabricated as part of the step well area. This intermediate step shall be an 8 1/2" step from the floor of the step well, and the actual floor of the ambulance shall be another 8 1/2" step.

The vertical sides of the compartment shall be fabricated from .080 polished aluminum diamond plate. The floor shall include non-skid turtle tile, removable with a drain/sweep out plug for ease of cleaning. The intermediate step shall also be provided with the same non-skid turtle tile on the horizontal stepping surface. Aluminum diamond plate on the floor is unacceptable due to the slippery surface when wet.

The Stepwell compartment shall also provide for recessed storage with access from the side entrance door. The stepwell area shall be integrated into the head of the squad bench resulting in a diamond plate recessed storage area with approximate dimensions of 5" d x 12" w x 24" high. . The intermediate step shall be fabricated with a 45 degree angle to allow for easy placement and removal of the portable oxygen cylinders stored in the recessed area. The sub-floor of the compartment shall be fabricated from 3/16" aluminum plate to provide a heavy duty walk surface which will not flex under foot. The upper edge where the step well meets the flooring material shall include non-slip polished aluminum threshold trim which is screwed in place.

DOOR CONSTRUCTION: Bidder Complies YES _____ NO _____

All doors including personnel and compartment doors shall be constructed of a custom designed extrusion made of 6061-T6 aluminum alloy, used in combination with a "Bent Box Pan" exterior door panel. The bent exterior door panel shall be fabricated from .125" 5052-H34 aluminum alloy panels that

have the exact properties and quality as the exterior side panels. Each door pan shall be manufactured with a 3/4" sharp inside corner bend to minimize outside bend radius. The custom extrusion shall be 45 degree miter cut and fit into the 3/4" recessed area of the pan. An epoxy seal shall be applied between the door pan and the extrusion to seal each door in addition to 100% welding on the outside corners of the door pan. The door shall have an overall dimension of 2 1/2", with the primary door seal being mounted to the door at the 3/4" dimension of the door exterior pan. The door latching hardware shall be mounted inboard of the seal in all cases. The door shall have gussets welded from the inside and shall be reinforced in areas where windows are to be installed and for areas where heavy objects might be hung from them.

The door extrusion shall be designed in such a way to provide two surface grooves which are used for proper alignment of the door hardware concealed within the door. The grooves shall be used for proper in-out placement of the hardware so that proper alignment is always maintained. All slots and cutouts required for the rotary latches shall be machined or stamped prior to the construction of the door. Door configurations requiring double doors, shall utilize a structural member attached to the adjoining edge of the second opening door. This structural member shall match the seal surface of the door jambs on the balance of the door opening. This member shall be welded in place and be a permanent member of the door. Add-on or bolted double door dividers are unacceptable.

DOOR SEALS: Bidder Complies YES _____ NO _____

The door shall incorporate a continuous seal permanently attached around the entire perimeter of the door. Automotive latching hardware shall not interrupt the seal surface. The seal shall be a custom designed hollow core seal specifically designed for hinged doors. It shall be a "Dynamic" type seal with vent holes on the outside edge to allow for easier closing of door against seal. Flat open or closed cell solid rubber "Static" seals are not acceptable for hinged doors.

DOOR HINGES: Bidder Complies YES _____ NO _____

Each door shall be hung with stainless steel continuous hinges. The hinge shall have a 1/4" pin which is staked every six inches to prevent the pin from sliding. The hinges shall be held to the door and to the body using 1/4-20 stainless steel threaded machine fasteners every, 4" on both sides, use of rivets on hinges is not acceptable. All hinges installed on the body shall include a closed cell foam barrier between the dissimilar stainless steel hinge surface and the painted aluminum body. A close cell gasket shall be added between hinge and body to seal any gaps caused by securing the hinge.

DOOR LATCH HARDWARE: Bidder Complies YES _____ NO _____

Every door shall utilize an automotive type rotary slam latch. All doors used for personnel access shall utilize two latches; one located on the top of the door the other at the bottom. All compartment doors taller than 70" shall utilize two latches; one located on the top of the door and the other at the bottom. Single point hardware for this type or any other type of door hardware is unacceptable. The latches shall meet FMVSS 206 standard and shall not be modified in any way to jeopardize its integrity. Latch pins without heads intact shall be cause for immediate rejection of vehicle.

All rotary slam latches shall be activated by adjustable steel rods. Cable activated rotary latches are unacceptable. All door hardware and rod assemblies shall be designed to minimize hardware rattle. Compartments that require double opening doors shall incorporate (2) point latches on first closing door in addition to second closing door. The latches shall be activated by a handle in **each** compartment door on the exterior which matches the other exterior handles on the vehicle.

All door hardware, including rods and latches, shall be concealed within the inner door panel. Doors with any exposed latching hardware are unacceptable. All door systems, including latches, hinges and body/door components shall be tested and certified to meet AMD-002. Test documentation shall be provided upon request.

ANODIZED ALUMINUM DRIP MOLDINGS: Bidder Complies YES _____ NO _____

Anodized extruded aluminum drip moldings shall be provided above all exterior compartment and entrance doors. The moldings shall be attached without the use of unsightly screws and shall be easily replaceable if damaged. This molding shall direct excess water away from the compartment and entrance door opening.

COMPARTMENT DOOR BUMPERS: Bidder Complies YES _____ NO _____

Heavy duty tape on type rubber (Styrene butadiene rubber, SBR) bumpers shall be installed on all compartments that may come in contact with one another.

LOCKTITE/FASTENERS: Bidder Complies YES _____ NO _____

All exterior door hinge bolts, inner door panels on both compartment and entrance door panel, and door latching bolts shall be installed with the use of Locktite thread locking material.
Chrome Trimark Power Locking Handles, Entrance Doors, Qty (3)

TRIMARK POWER LOCKING ENTRANCE DOOR HANDLES: Bidder Complies YES _____ NO _____

The right side and right and left rear entrance doors shall incorporate a Trimark automotive style paddle handle. This handle shall activate an F.M.V.S.S. approved rotary style automotive door latch, two latches per door. Single point door latches for entrance doors are unacceptable. The exterior handle shall have chrome housing and chrome release paddle. There shall be no mounting hardware exposed to the outside for security reasons. The inside handles on all entrance doors including the left rear door, shall be a matching automotive design, flush paddle release type designed specifically for use with this system. Door hardware shall incorporate a rod activated power door locking system. This system shall be used in at least 100 Ambulances in service. Prototype systems are unacceptable. All rods used for interior door release mechanisms shall incorporate anti-rattle devices to prevent door hardware noise.

All entrance doors shall incorporate a power locking - unlocking feature. The control of the power door locks shall be from the power door lock switches located on the driver and passenger doors. All handles shall have a key activated override of power locking feature.

TRIMARK POWER LOCKING COMPARTMENT DOOR HANDLES: Bidder Complies YES _____ NO _____

All compartment doors shall incorporate automotive style paddle handles. This handle shall activate an F.M.V.S.S. approved rotary style automotive door latch. The exterior handle shall have chrome housing and chrome release paddle. Mounting hardware shall not be exposed to the outside for security reasons. Door hardware shall incorporate a rod activated power door locking system. This system shall be use in at least 100 Ambulances in service. Prototype systems are unacceptable. NO EXCEPTIONS

All compartment doors shall incorporate a power locking - unlocking feature. The control of the power door locks shall be from the power door lock switches located on the driver and passenger doors. All handles shall have a key activated override of power locking feature. These doors shall lock - unlock at the same time as the cab doors and entrance doors.

GAS SPRING DOOR HOLDERS: Bidder Complies YES _____ NO _____

All hinged compartment doors and right side entrance door shall incorporate a pneumatic gas spring door holder. The mounting bracket, piston end for the door side, shall be secured to the 1/4" gusset within the door. The door holder gas spring end shall be attached to compartment ceiling. The gas spring shall be installed with a 10 degree pitch downward to improve function and extend life of gas spring.

ALLCOMPARTMENT TO CHECK PAST 90 DEGREES Bidder Complies YES _____ NO _____

The Gas spring door check on all compartments shall be set beyond the standard 90 degree, open default position to allow easier access into the compartments.

REAR ENTRANCE DOOR HOLDER, "GRABBER": Bidder Complies YES_____ NO_____

The rear entrance doors shall incorporate a Polished Aluminum Cast Products Grabber door holder device. This device shall hold the door at approximately 170 degrees. The door holders shall be securely bolted to the vehicle substructure of the body.

COMPARTMENTS

COMPARTMENT "A" Bidder Complies YES_____ NO_____

Left front compartment with the dimensions of 20w x 86h x 21d.

COMPARTMENT "B" Bidder Complies YES_____ NO_____

Left side half high compartment with dimensions of 43w x 42h x 20d.

COMPARTMENT "C" Bidder Complies YES_____ NO_____

Left rear half high compartment with the dimensions 31w x 39h x 20d.

COMPARTMENT "D" Bidder Complies YES_____ NO_____

Right front inside/outside storage compartment, with the width and height dimensions of 20w x 55h. Above the vehicle floor level, access shall be from either the exterior or the interior of the vehicle with a depth of 33". Below floor level shall be outside only access, of the lower compartment with a depth of 20".

COMPARTMENT "E" Bidder Complies YES_____ NO_____

Right Rear, compartment with the dimensions 24w x 83h x 21d. The compartment shall provide inside outside access from the center isle of the vehicle.

COMPARTMENT DOOR PANELS: Bidder Complies YES_____ NO_____

Interior door panels on compartment doors shall be made of .100" polished aluminum diamond plate held on with threaded fasteners that provide access for repairs or replacement of hardware.

STAINLESS STEEL DOOR SILL PROTECTION PLATES: Bidder Complies YES_____ NO_____

Heavy duty stainless steel protection plates shall be installed on the lower edge of all entrance and compartment door openings. The plates shall be a formed polished stainless steel angle with dimensions of 1/2" x 1", by full width of the door opening. The angle plates shall be permanently mounted without the use of screws and be removable for replacement if necessary. All edges shall be filed and deburred for a finished appearance.

COMPARTMENT VENTING: Bidder Complies YES_____ NO_____

The exterior compartments shall be vented to the exterior of the vehicle. The vents shall be located in the lower portion of the compartments. Vents are installed to allow air to escape and allow the compartment door to close with ease. The vents are added to an area above floor level to prevent road debris from entering the compartment. The vents shall have a total of 25 square inches.

DRI-DEK FLOOR MATTING: Bidder Complies YES_____ NO_____

Dri-Dek material shall be installed on all floors of the exterior compartments. The Dri-Dek shall be custom cut to fit around oxygen bottles and mounted equipment. The flush sweep-out floor edges shall include the Dri-Dek tapered edges.

RUBBER MATTING SHELVES: Bidder Complies YES____ NO____

A .125" rubber mat material shall be installed on all shelves of the exterior compartments. The rubber matting material shall be custom cut to fit each compartment shelf.

SIDE ENTRANCE DOOR STEPWELL: Bidder Complies YES____ NO____

The floor of the step well compartment shall be lined with nonskid Turtle Tile mat. The mat shall be removable for ease of cleaning.

OXYGEN BRACKET, COMPARTMENT A Bidder Complies YES____ NO____

The Oxygen bracket (Zico QV-MV) shall be installed within compartment "A".

ADJUSTABLE SHELF EXTERIOR COMPARTMENT "A": Bidder Complies YES____ NO____

An adjustable shelf shall be added to the left front exterior compartment. The shelf shall be mounted on four sections of aluminum Unistrut, and be fully adjustable. An LED light fixture shall be installed under the shelf. The compartment light shall be controlled by an automatic door post switch in the door. The compartment open indication light shall activate anytime any compartment door is opened. The door post switch shall activate the compartment lighting relays. The door post switch shall not carry the current of the compartment lights.

VERTICAL DIVIDER: Bidder Complies YES____ NO____

Compartment "B" shall be equipped with a full height divider. The divider shall be fabricated from a 0.125" aluminum panel with flanges on top and bottom and back edge for better attachment to the compartment. Dividers shall have a brushed aluminum finish.

ADJUSTABLE SHELVES (2) Bidder Complies YES____ NO____

Two (2) vertically adjustable aluminum diamond plate shelves shall be mounted on Unistrut shelving standards, within compartment "C".

FULL HEIGHT DIVIDER W/(3) ADJUSTABLE SHELVES: Bidder Complies YES____ NO____

The compartment as listed below shall be equipped with a full height divider 12" off front wall, with one side for long equipment storage and three 10.25" adjustable shelves on the other side of the divider. The divider shall be fabricated from a 0.125" aluminum panel with flanges on top and bottom and back edge for better attachment to the compartment. Dividers will be finished off with a "Powder Coat" paint process. The shelves shall be mounted on four sections of aluminum Unistrut, and be fully adjustable.

BACKBOARD MOUNTS: Bidder Complies YES____ NO____

The right rear full height compartment shall be provided with (3) black rubber friction mounts for securing two (3) backboards. The mounts shall be fabricated from an "L" shaped (45"h x 16"d) 3" aluminum channel. The channel will be bolted to the interior compartment. The rubber friction mount shall be press fitted onto each side of the 3" channel, full length. Proper spacing shall be provided to allow for Long Boards with runners.

MOUNTING HANGER FOR SCOOP STRETCHER: Bidder Complies YES____ NO____

The left front full height compartment shall be provided with a rubber coated "Ferno EXL" Scoop hanger for hanging of a Ferno Washington #65 Scoop Stretcher or Ferno #65 EXL Scoop Stretcher.

SCBA MOUNTING: Bidder Complies YES _____ NO _____

Two lengths of aluminum, heavy duty 1 1/2" Unistrut shall be mounted in the back portion of Compartment "B" for the mounting of (2) SCBA brackets as specified.

SCBA ZICO WALK-AWAY BRACKETS WITH #5 CLIP: Bidder Complies YES _____ NO _____

Two (2) Ziamatic Walk-Away brackets with a #5 size clip shall be both provided and installed to store the customer's supplied SCBA bottle. The brackets shall be equipped with a hold down strap to secure the equipment and the unit shall be bolted in place to prevent movement. The brackets shall include "high-cycle" coated clips to prevent undo wear on the customer's air bottle

REAR STEP BUMPER: Bidder Complies YES _____ NO _____

A full length reinforced rear bumper shall be installed on the rear of vehicle. The bumper shall be fabricated from 3" aluminum 6061-T6 structural channel and securely bolted to the vehicle frame using high strength, grade 8, 1/2" bolts. The bumper shall have contoured ends and be covered with polished aluminum diamond plate end caps. In addition, two full end gussets shall be provided to support the bumper ends in the event of minor impact. The gussets shall be fabricated from 3" x 2" x 1/4" structural aluminum tube 6061-T6. No exceptions to size of gussets.

The bumper shall incorporate a design that allows it to be recessed under the rear of the body. Any rear bumper design that does not have a recessed design shall be unacceptable. The under body recessed bumper design allows the chassis frame to absorb minor impact without any damage to ambulance body.

**LIFT-UP REAR STEP;
RECESSED STEP RISER:** Bidder Complies YES _____ NO _____

The rear step bumper shall incorporate a 44" long by 9 1/2" deep, lift-up center section made of extruded aluminum, "Diamond Back" safety grating. The step shall hinge on a full length stainless steel piano hinge. Note: When the step is in the load position the step shall be totally within the exterior of the body and shall not protrude beyond the door sill.

DOCK BUMPERS: Bidder Complies YES _____ NO _____

Two (2) Heavy duty black rubber dock bumpers shall be installed on the rear bumper ends, (1) each side. The bumpers shall be 2" high, 10" long and protrude 2" outward from rear bumper. The dock bumpers shall be bolted to the structural channel of the rear step bumper.

ALUMINUM DIAMOND PLATE ACCESSORIES

FRONT STONE GUARDS: Bidder Complies YES _____ NO _____

High polished .100 aluminum diamond plate stone guards shall be installed on the front body corners. The guards shall be one piece & contoured to fit the 1 5/8" outside radius of the body. The stone guards shall be removable for repair in event of damage. The edges of the diamond plate panels shall be sealed with a closed cell gasket around the perimeter, to prevent moisture from getting behind panels. All panels shall be removal if required.

RUB RAILS, "C" CHANNEL: Bidder Complies YES _____ NO _____

"C" Shaped rub rails shall be installed on the lower body skirt panels under the door line with open Flanges pointing away from the body. The rub rails shall be Custom Aluminum Channel. The ends shall be chamfered and all sharp edges sanded. The aluminum shall be protected with an anodized Bright-Dip finish. The rub rails shall be attached to the body with .625 deep rubber spacers that hold the channel off the body. This spaced design prevents debris from accumulating between the Rub Rails and the painted body. Designs that are not offset from the body are unacceptable due to their tendency to accumulate debris. The rub rails shall span the left and right side of the ambulance body on either side of the rear wheel opening.

TYPE I, FLARED RUNNING BOARDS: Bidder Complies YES _____ NO _____

Polished aluminum NFPA Certified diamond plate custom built running boards shall be installed on both cab entrance step areas. The running boards shall have a 2" bent outside flange for strength, and be bolted to the lower cab rocker panel. The running boards shall incorporate into the design an aluminum wheel splash guard on the forward edge, for protection from the front wheel splash. The running boards shall be tapered to match the exterior body width. The rear full width tapered area shall be properly reinforced to withstand a 500 pound load without flexing. Type I Running Boards without the use of rear reinforcement and commercially available type running boards are unacceptable.

REAR DIAMOND PLATE PANEL & CORNER GUARDS: Bidder Complies YES _____ NO _____

A polished aluminum diamond plate kick panel shall be installed above the rear step bumper and below the rear doors. The panel shall overlap. The step riser panel shall be removable. Polished aluminum diamond plate panels shall be installed on the rear body corners. Panels shall extend to the rear step riser, and protect the lower area of the body around the rear recessed bumper step. The panel height shall be approximately 4" in height.

EXTERIOR TRIM

REAR WHEEL FENDERETTES, RUBBER: Bidder Complies YES _____ NO _____

Heavy Duty Rubber, fenderettes shall be installed around the rear wheel opening, sized to allow for proper tire clearance. The fenderettes shall be bolted on for easy removal. All hardware shall be concealed. Exposed mounting hardware is unacceptable.

LICENSE PLATE HOLDER: Bidder Complies YES _____ NO _____

A recessed Cast Products polished aluminum license plate holder shall be installed in the left rear body panel of the ambulance. The housing shall be installed with an EPDM 40 to 60 durometer rubber gasket. It shall include (1) LED license plate light activated with the running / headlights of the vehicle.

FUEL FILL HOUSING: Bidder Complies YES _____ NO _____

A Cast Products Polished Aluminum fuel fill housing shall be installed in the street side body panel. The fuel fill shall be designed to match the O.E.M. mounting procedures and shall not cause any undue stress on any of the fuel components. The fuel fill housing shall be completely sealed from the inside of the vehicle and shall be installed with an EPDM 40 to 60 durometer rubber gasket.

DIESEL EXHAUST FLUID FILL HOUSING: Bidder Complies YES _____ NO _____

A Cast Products Polished Aluminum DEF fill housing shall be installed in the street side body panel. The DEF fill shall be designed to match the O.E.M. mounting procedures and shall not cause any undue stress on any of the fill components. The DEF fill housing shall be completely sealed from the inside of the vehicle and shall be installed with an EPDM 40 to 60 durometer rubber gasket.

ADDITIONAL EXTERIOR:

BODY UNDERCOATING: Bidder Complies YES _____ NO _____

The underside of the modular body, including frame members and compartment lower panels shall be undercoated with AudioGuard® Acoustical Coating P8060. The material shall be applied prior to the body being mounted to the chassis to ensure maximum coverage. Material application will be evenly sprayed to a minimum of 40 mils under body and 80-100 mils in the wheel box and stepwell areas.

After the body has been mounted to the chassis 40 mils of AudioGuard® material will be applied under the cab and to the body aluminum sub floor with the exception of areas near the exhaust and other heat generating components per the guidelines of Ford QVM.

AUDIOGUARD® ACOUSTIC COATINGS P8060 is a one-component, waterborne, sprayable, coating designed to reduce structure-borne vibrations and associated sound transmission. The characteristics of the coating provide a tough material that can prevent chipping, cracking or marring of painted or unpainted surfaces. The coating is useful wherever a reduction in airborne noise is desired.

EXTERIOR BODY WINDOWS

SLIDING SIDE DOOR WINDOW: Bidder Complies YES _____ NO _____

A Transportation Products, Inc. 18"W x 22"H window shall be installed in the side entrance door. It shall have sliding, 31% tinted automotive safety glass and be mounted within an aluminum black anodized frame. The window shall be completely sealed and held to the door via an inside clamp ring which matches the exterior of the window. The window shall incorporate a sliding removable screen.

FIXED REAR DOOR WINDOWS: Bidder Complies YES _____ NO _____

Two (2) Transportation Products, Inc. 16"W x 22"H windows shall be installed in the rear entrance doors. They shall have fixed automotive 31% tinted safety glass and be mounted with an aluminum black anodized frame. The windows shall be completely sealed and held to the door via an inside clamp ring, which matches the exterior of the window.

RIGHT SIDE SLIDING BODY WINDOW: Bidder Complies YES _____ NO _____

A Transportation Products, Inc. 45"W x 15"H window shall be installed in the right side body panel above the interior squad bench. It shall have sliding 31% tinted automotive safety glass and be mounted within an aluminum black anodized frame. The window shall be completely sealed and held in the body via an inside clamp ring which matches the exterior of the window. The window shall incorporate a sliding removable screen.

MYLAR TINTED WINDOWS: Bidder Complies YES _____ NO _____

All modular windows shall be dark privacy tinted, by the addition of a MYLAR film to the inside of the door windows. The installation shall be free of air bubbles and other defects.

INTERIOR MODULAR BODY CONSTRUCTION TYPE

STANDARD CABINET CONSTRUCTION: Bidder Complies YES _____ NO _____

The interior cabinets of the vehicle shall be completely constructed of 3/4" and 1/2" premium grade, cabinet birch plywood and in non-stress areas, 1/4" plywood. Assembly of the cabinets shall be with 1 1/4 inch #8 zinc screws through 1/2 inch plywood and 1 1/2 inch through 3/4 inch plywood. 1 1/4" staples are utilized for both applications. 3/4 inch staples are utilized for 1/4" plywood. The staples are spaced approximately 2 inches apart and the screws should be 6-8 inches apart. All wood to wood joints are glued. Each cabinet shall include a reinforced attachment point where it is secured to the vehicle framework. All cabinets shall be attached directly to the vehicle framework and all mounting bolts shall be placed on a maximum of 12" centers for any cabinet. All cabinets shall be covered with AEON Enhanced Performance high pressure 1.35mm plastic laminate and trimmed with aluminum moldings for a finished appearance. Raw wood or unfinished edges of any kind including aluminum panels are unacceptable.

When a full height left front cabinet, full height right rear cabinet, or a full height cabinet in the right front exists in the vehicle, it will have rounded corners of radius 1.5" on the inboard vertical edges. The rounded corner will be constructed from two extrusions made from 6061-T6 aluminum. The interior extrusion is designed to attach two perpendicular sheets of furniture grade laminated plywood. The exterior or visible extrusion will be satin anodized and designed to snap into the interior extrusion, so that it may be replaced if damaged. If the full height left front cabinet, right rear cabinet, or full height cabinet in

the right front have specific components preventing the cabinet from incorporating the rounded corner design it will have the edge of the cabinet finished with anodized aluminum three quarter round molding.

WALLS: Bidder Complies YES _____ NO _____

All walls of the vehicle shall be fabricated using 1/4" plywood covered with color coordinated high pressure AEON enhanced performance plastic laminates. Walls shall be attached to the body framework using threaded fasteners.

ADJUSTABLE SHELVES: Bidder Complies YES _____ NO _____

All adjustable shelves within the interior cabinets shall be constructed from 1/2", high-density polyethylene material. The shelves will be mounted to Unistrut shelving standards. Each cabinet shall be equipped with four adjustable standards for each cabinet and have (4) retaining clips for each shelf. The shelf will have 2 securing screws attached to retaining clips. The shelf shall be the full width and depth of the cabinet and shall include a 1" anodized aluminum angle on the shelf front edge, creating a full length 5/8" high retaining lip.

HINGED DOORS: Bidder Complies YES _____ NO _____

All hinged doors shall be equipped with hinges and a locking Southco stainless steel positive latching device to prevent opening while in motion. All surfaces of the door including the edges shall be finished to match the interior of the vehicle cabinets.

WIRE RACEWAY: Bidder Complies YES _____ NO _____

A full length drop down wire raceway shall be installed down the center of the ceiling. It shall be finished with 1/8" padded vinyl material to match the upholstery in the vehicle. Vehicles which utilize wire raceways above or behind interior cabinets are unacceptable.

SOFFIT TRIM: Bidder Complies YES _____ NO _____

A vinyl covered soffit trim piece shall be installed around the perimeter of the interior cabinets where they meet the ceiling. This trim shall be added to allow access to the cabinet mounting bolts and provide a finished transition between the ceiling and cabinet surfaces.

CUSHION AND UPHOLSTERY FOAM PADDING: Bidder Complies YES _____ NO _____

The foam padding on all head bumpers and upper padded surfaces shall be a Volara 2A, closed cell foam which is laminated and layered to a 1/2" thickness, to provide both compression resistance and compression density. This laminated, closed cell foam creates a padded surface that acts as an air-spring when compressed. This specialty foam naturally resists force and will not "bottom out" upon impact and provides positive resistance to pressures applied in any dimension,

The foam padding on all side attendants, squad-bench seating and all seating backrests shall be a 3" Nimbus open cell foam with a # 1865 grade standard, which provides maximum rigidity while still maintaining comfortable seating upon a variety of weight compression. This grade of open cell foam allows the air to escape the foam under compression, thus providing a comfortable seating surface. Also, the density of the foam does not allow the foam to "bottom out" upon compression. The foam types used have low water absorption and vapor transmission rating and excellent thermal insulation and chemical resistant properties

ADDITIONAL FOAM PADDED SURFACES: Bidder Complies YES _____ NO _____

A 1/8" thickness of Volara 2A closed cell foam shall be applied to the radius area of the ceiling Heat and Air Conditioning duct work to provide a softer surface while enhancing the thermal properties of the heating and cooling system. The upholstered center section of the side and rear body entrance doors

shall also include the 1/8" Volara 2A closed cell foam to provide a uniform appearance and a softer surface with an increase in thermal resistance.

INSULATION

MODULAR BODY INSULATION: Bidder Complies YES _____ NO _____

The entire inside surface of the modular body, including walls and ceiling, shall be insulated with a minimum of 1.7" (44mm) thick, AU 6020-2 High Performance Acoustic Thinsulate. The thermal property of this insulation installation is R 9.1. The insulation shall completely fill the voids between the frame members and the exterior skin. Areas behind heat generating light fixtures shall not be insulated.

In addition to the modular body Thinsulate insulation, the interior surfaces of the rear wheel wells and the side and rear entrance door panels shall be provided with an adhesive backed composite acoustical sound deadening material. This material is specifically designed for the reduction of transmitted sound in single skin aluminum panels and shall not be substituted with other spray on products.

MODULAR BODY ENTRANCE DOOR INSULATION: Bidder Complies YES _____ NO _____

All exterior patient compartment entrance doors shall be sound deadened with a composite acoustical sound deadening material. The internal skin surface of the interior door shall have this material bonded to it. The modular entrance doors shall have an additional thermal insulation of 2" thick "Thinsulate" bonded in place with clearance provided for door hardware. Interior door panels are provided with vibration isolators for the internal rods connecting the door handles to the latching mechanisms.

MODULAR BODY COMPARTMENT DOOR INSULATION: Bidder Complies YES _____ NO _____

All exterior compartment doors shall be insulated and sound deadened with a slow rise foam in place insulation material which has an R value of 6.2. The interior skin surface of the door shall have this material sprayed and bonded to it. The use of fiberglass or undercoating type material is unacceptable in this exterior door application.

FLOOR: Bidder Complies YES _____ NO _____

The floor shall consist of 3/4" Expanded PVC Polymer material. This material shall have .016 lbs. per cu in density and be impervious to fluid intrusion. An aluminum sub-floor shall be installed between the floor material and the floor frame members.

FRONT BULKHEAD WALL

CAB TO BODY PASS-THRU: Bidder Complies YES _____ NO _____

A cab to body pass-thru window shall be installed in the front of the body and rear of cab. In the front of the body the module framework shall be positioned to allow for a minimum opening of 17" wide x 13" high. The opening shall have a full perimeter 5/8" flange on the body side with 2" radius in the corners. The opening shall include a double sliding window for privacy.

The rear of the cab shall be modified by adding a flange to the rear glass center framework section. The frame flange shall have a matching 5/8" flange to align with the opening in the body and provide approximately a 1 3/4" gap between the cab and body for flexing. Attached to the flange shall be an automotive quality EPDM rubber bellows material with steel spring carrier attachments completely sealed at the seam. The seal shall be semi-permanent and removable if required at some future time.

HEATER/AIR CONDITIONER CABINET: Bidder Complies YES _____ NO _____

The Heater/Air Conditioner cabinet shall be provided in the upper most area, centered above the cab to body pass-thru. This cabinet shall be designed in such a way to allow for quick easy removal of

Heater/Air Conditioner unit without the removal of any other equipment. The interior of the cabinet shall be designed to allow fresh air intake from the front of the exterior body and exit to a closable vent located under the cabinet platform. The vent allows fresh air from the exterior of the vehicle to shut off in the summer months for maximum air conditioning performance. The lower platform shall also allow adequate return air flow to the Heater/Air Conditioner unit. The air return shall have a minimum air opening in the cabinet for two 6" by 10" filtered return grills.

ELECTRICAL DISTRIBUTION CABINET: Bidder Complies YES _____ NO _____

The Electrical Distribution Cabinet shall be located on the front left wall of the body. The cabinet shall be approximately 12 1/2" wide x 17" deep and run from the floor to the underside platform of the heater/air conditioner cabinet. The cabinet shall have a dual removable access panels and a larger main cover, located on the right side of the cabinet. The main cover shall be secured with four threaded fasteners. An access panel, within the main cover, shall latch in the closed position by two flush mounted locking trigger latches. The size of the access panel shall be approximately 11 1/4" wide by 24 3/4" high. A secondary removable access panel, on the front side of the cabinet, separate from the removable access cover, shall provide access to the vehicle relays, and be secured with four threaded fasteners. The size of the relay access panel shall be approximately 11" wide by 23 1/2" high. All the main wiring harnesses shall terminate within this compartment. Cabinet shall be provided adequate compartment ventilation. The cabinet cover and all access panels shall be covered in heavy duty vinyl to match interior upholstery.

An LED light shall be mounted on the ceiling of the electrical distribution cabinet. The light shall have a switch on the flange. In addition, the light comes with a standard connector for easy maintenance.

FRONT BULKHEAD INTERIOR STORAGE CABINET Bidder Complies YES _____ NO _____

In the front bulkhead area shall be a cabinet with (2) 1/2" acrylic doors with a Southco latch. Included are 2 shelves.

COUNTER TOP FRONT BULKHEAD CABINET: Bidder Complies YES _____ NO _____

The counter surface on the front bulkhead cabinet shall be covered with a Meganite counter top material. The counter shall be permanently bonded and sized to cover the entire surface of the counter area. The counter top shall have a 1" built-in lip around the entire perimeter for containment purposes. The edge of the counter top facing inboard shall be a 1.5" radius. ABS or other plastic surfaces are not an acceptable substitution.

RIGHT FRONT INTERIOR CABINET

RIGHT FRONT INTERIOR STORAGE CABINET, UPPER: Bidder Complies YES _____ NO _____

In the upper most portion of the right front bulkhead area shall be a cabinet with sliding transparent access doors. The cabinet shall extend from the top of the inside outside portion of the right front to the ceiling of the vehicle. Approximate dimensions 20" high by 28 7/8" wide by 18" deep. Includes (1) adjustable shelf.

RIGHT FRONT LOWER, IN/OUT ACCESS STORAGE COMPARTMENT: Bidder Complies YES _____ NO _____

The interior right front storage cabinet of the vehicle shall be designed to provide access from both the inside of the vehicle or through the exterior compartment door. The size of the compartment shall align with the exterior height and width of the exterior compartment door area above the floor level of the vehicle. The width of the compartment from the inside shall extend to the pass thru area to the cab. Approximate dimensions 39 3/4" high by 31 7/8" wide by 19" deep.

RIGHT FRONT CABINET, ADJUSTABLE SHELVES: Bidder Complies YES _____ NO _____

The right front inside/outside compartment shall be equipped with two (2) adjustable shelves. The shelves shall be fully adjustable within the inside area of the cabinet.

RIGHT FRONT IN/OUT COMPARTMENT HINGED DOORS: Bidder Complies YES _____ NO _____

The right front inside/outside access cabinet shall incorporate double hinged 1/2" acrylic transparent doors. The doors shall have hinges that resist motion when moved to prevent doors from swinging freely when the vehicle is moving. The doors shall also incorporate (1) Southco Polished Stainless Steel positive type locking latch in each hinged door.

RIGHT SIDE SQUAD BENCH

TWO PERSON SQUAD BENCH, CUSTOM INTERIOR RIGHT SIDE LAYOUT, "MEDIC IN MIND": Bidder Complies YES _____ NO _____

A custom interior right side layout shall be fabricated and installed. The layout shall consist of a two person squad bench located over the rear wheel.

SQUAD BENCH, TWO PERSON 2/3 LENGTH: Bidder Complies YES _____ NO _____

A two person squad bench shall be provided on the right side wall. It shall have dimensions of approximately 60" long x 19" high x 20" deep. The squad bench shall be bolted to reinforced members of the framework utilizing 7/16" high strength bolts. The storage area of the squad bench shall be accessible by lifting the seat cushions. The inside area of the squad bench shall be laminated with high pressure plastic laminates.

The bench shall have upholstered padded 3" thick seat cushions. The seat cushions shall be approximately 18" wide x 44" long. The lower cushion shall be removable and easily cleaned or replaced if damaged. The cushions shall be held to the platform with #8 screw type mechanical fasteners, which is permanently attached to the underside of the cushion and platform surface of the squad bench. The cushion/lid shall be held open and closed by two (2) gas spring hold opens and hinged at the rear with full length piano hinges. The mounts for the gas spring shall be installed into reinforced areas within the seat lid platform.

SQUAD BENCH BACKREST, 2 PIECE: Bidder Complies YES _____ NO _____

The right side backrest shall be a two piece backrest, consisting of an upper and lower section. Both sections mounted horizontally, with one directly above the window and the second mounted just below the window. The backrest shall match the squad bench cushion, and be mounted so that it can be easily removed.

"D" BOTTLE STORAGE AT STEPWELL: Bidder Complies YES _____ NO _____

The step well of the vehicle shall be modified to extend under the right side platform. The recessed area shall provide a storage location for two "D" size oxygen cylinders.

RIGHT SIDE FORWARD BELOW COUNTER LEVEL INTERIOR STORAGE: Bidder Complies YES _____ NO _____

An interior storage cabinet shall be located forward of the right side attendant seat and below counter level. It shall be approximately 15 1/2" wide x 18" high x 21 3/4" deep.

RIGHT SIDE FORWARD BELOW COUNTER STORAGE DRAWERS: Bidder Complies YES _____ NO _____

A three (3) drawer storage cabinet shall be installed below the counter area forward of the right side squad seat facing the seat area. Each drawer shall be lined with ribbed rubber matting and have locking Southco latches.

MEGANITE COUNTER TOP FRONT COUNTER AREA: Bidder Complies YES_____ NO_____

The counter surface in the right side front shall be covered with genuine "Silver Mist" color, Meganite counter top material. The Meganite shall be permanently bonded and sized to cover the entire surface of the counter area. The counter top shall have a 1" built-in lip around the entire perimeter for containment purposes. The edge of the counter top facing inboard shall be a 1.5" radius. ABS or other plastic counter surfaces are not acceptable.

SQUAD BENCH LID HOLD DOWN DEVICE: Bidder Complies YES_____ NO_____

The lid of the squad bench shall be equipped with a slam type positive closure device. This closure device shall prevent opening of squad bench lid in the event of an accident. The release shall be a stainless steel slam type Trimark paddle handle located on the outside surface of the squad bench, and incorporate a catch device on the underside of the lid.

TIP-OUT TRASH BIN: Bidder Complies YES_____ NO_____

A Tip-out trash bin shall be provided under the squad bench cabinet, forward of wheel well. It shall be custom built into the bench, provide a hinged tip-out door, and flush Southco Polished Stainless Steel latch to access a removable Rubbermaid plastic trash pail which is mounted to the door. Trash bin shall tip into aisle toward the center of the vehicle. The trash bin shall be designed to include an aluminum door laminated to match the interior cabinets. The trash bin shall be a totally self-contained unit and be sealed on all sides to contain its contents during transit.

SHARPS CONTAINER, SURFACE MOUNTED: Bidder Complies YES_____ NO_____

A 5 qt. Sharps container shall be surface mounted onto the forward facing wall of the right rear "fascia" cabinet which surrounds the "E" compartment.

OVERHEAD STORAGE ABOVE SQUAD BENCH WITH SLIDING DOORS: Bidder Complies YES_____ NO_____

A 10" overhead storage cabinet shall be provided and installed in the area above the squad bench. The forward section shall include storage for three (3) glove boxes. The cabinet shall have two (2) transparent sliding doors, and contain one (1) adjustable shelf. The entire lower edge corner shall be padded to prevent sharp corners. This cabinet is compliant with the KKK 43" headroom requirement.

LEFT SIDE ATTENDANT SEAT: Bidder Complies YES_____ NO_____

A left side attendant seat shall be built into the left wall cabinets. It shall incorporate a 24" wide x 20" deep seat area with a cushion which is 21" above the floor, a backrest, and a separate headrest. The seat shall be designed for a single seating position. In order to prevent injury during vehicle motion both the forward and rear cabinets that are immediately adjacent to the left side attendant, seat shall include full size padded head bumpers with a 1" thick padding. Designs which do not include this padding are unacceptable. All vertical surfaces to the front and rear of the seat cushion shall be fully padded and wrap around the top of the counter to provide a full armrest.

LEFT SIDE ATTENDANT SEAT BACKREST: Bidder Complies YES_____ NO_____

A left side attendant seat shall include a full height backrest cushion which extends from the seat to the ceiling. The backrest cushion shall be approximately 2" thick.

LEFT SIDE ATTENDANT SEAT, UNDER SEAT STORAGE: Bidder Complies YES_____ NO_____

The underside of the left side attendant seat shall be lined with a brushed aluminum pan and allow for full under seat storage. The seat cushion shall be hinged in the rear and be held open and closed by a single

gas spring device. The seat cushion shall be equipped with a slam type positive stainless steel Trimark paddle latch.

LIFE SUPPORT STATION

LIFE SUPPORT STATION/SWITCH PANEL: Bidder Complies YES _____ NO _____

The rear Life Support control and switch panel shall be mounted to the underside of the upper cabinet. The oxygen outlets shall be mounted in the panel to provide use of a ball type flow meter with humidifier bottle attached. The entire panel shall be hinged to provide full access of components for servicing. An adequate area shall be provided alongside the switches for permanent built-in installation of two-way communications radio.

SWITCH PANEL COVERING: Bidder Complies YES _____ NO _____

The switch panel shall be covered with padded vinyl covering which matches the upholstery in the vehicle. The padding shall be 1/8" thick and glued in place prior to the installation of the custom made stitched vinyl cover.

STORAGE CABINET, HEAD OF LSS: Bidder Complies YES _____ NO _____

A storage cabinet shall be provided at the head of the Life Support Switch Panel. The cabinet shall be divided into 2-independent sections. The storage cabinet shall have (2) hinged 1/2" acrylic doors, each with a locking Southco Polished Stainless Steel positive latch.

LIFE SUPPORT STATION UPPER STORAGE CABINET WITH RESTOCKING LIFT-UP DOOR: Bidder Complies YES _____ NO _____

A storage cabinet shall be provided above the Life Support Control Panel. The rear most edge shall have a 45 degree angled panel to eliminate any obstructive corners in the area of the Life Support Station working area. The rear surface shall be covered with a padded head bumper surface. The storage cabinet shall be provided with a full framed sliding transparent cabinet door which is also capable of lifting for full restocking access to the cabinet and one (1) adjustable shelf within the cabinet. The door shall be held open with two gas springs and held closed with two positive slam latches. The frame shall be made of a custom designed aluminum extrusion and held together with (4) #10 mechanical fasteners in each corner; glued or epoxied construction is unacceptable. The entire lower edge shall be padded to prevent sharp edges.

MEGANITE COUNTER TOP FRONT COUNTER AREA: Bidder Complies YES _____ NO _____

The counter surface in the front Life Support Station shall be covered with "Silver Mist" color, genuine Meganite solid surface counter top material. The Meganite shall be permanently bonded and sized to cover the entire surface of the counter area. The counter top shall have a 1" built-in lip around the entire perimeter for containment purposes. The edge of the counter top facing inboard shall be a 1.5" radius. ABS or other plastic counter surfaces are not acceptable.

LEFT SIDE BELOW COUNTER STORAGE DRAWERS: Bidder Complies YES _____ NO _____

A three (3) drawer storage cabinet shall be installed below the counter area forward of the left side attendant seat. Each drawer shall be lined with ribbed rubber matting and have locking Southco latches.

LEFT REAR STORAGE CABINETS

LEFT REAR INTERIOR CABINET UPPER WITH RESTOCKING LIFT-UP DOOR: Bidder Complies YES _____ NO _____

A storage cabinet shall be provided in the upper left rear corner of the body. The cabinet shall have sliding transparent doors and one (1) adjustable shelf. The interior cabinet shall be provided with a full

framed sliding transparent cabinet door which is also capable of lifting for full restocking access to the cabinet. The door shall be held open with two gas springs and held closed with two positive slam latches. The frame shall be made of a custom designed aluminum extrusion and held together with (4) #10 mechanical fasteners in each corner; glued or epoxied construction is unacceptable. The entire lower edge corner shall be padded to prevent sharp corners.

LEFT REAR INTERIOR CABINET, LOWER: Bidder Complies YES _____ NO _____

A storage cabinet shall be provided in the lower left rear corner of the body above counter level. The cabinet shall have two (2) 1/2" acrylic hinged transparent doors, each with a Southco Polished Stainless Steel positive latching device and one (1) adjustable shelf.

MEGANITE COUNTER TOP REAR COUNTER AREA: Bidder Complies YES _____ NO _____

The counter surface in the rear counter area shall be covered with "Silver Mist" colored, genuine Meganite counter top material. The Meganite shall be permanently bonded and sized to cover the entire surface of the counter area. The counter top shall have a 1" built-in lip around the entire perimeter for containment purposes. The edge of the counter top facing inboard shall be a 1.5" radius. ABS or other plastic surfaces are not an acceptable substitution.

SHARPS CONTAINER, SURFACE MOUNTED: Bidder Complies YES _____ NO _____

A 5 qt. Sharps container shall be recessed mounted below the rear counter area.

RIGHT REAR INTERIOR CABINET: Bidder Complies YES _____ NO _____

Inside access shall be provided to right side rear exterior compartment "E". A 1/2" hinged acrylic door with polished stainless steel Southco latch shall be provided.

INTERIOR CABINET DOORS

TINTED TRANSPARENT DOORS: Bidder Complies YES _____ NO _____

All transparent doors where specified within this specification shall be tinted. All sliding doors shall be 1/4" Lexan and shall be installed in double, anodized aluminum tracks with Standard Products rubber flocked inserts to prevent movement and inadvertent sliding. All hinged transparent doors will be provided as 1/2" Acrylic and shall include a stainless steel locking Southco positive closure latches

FULL LENGTH HANDLES ON TRANSPARENT DOORS: Bidder Complies YES _____ NO _____

All sliding doors shall have anodized aluminum full length pull handles installed on the leading outside edge of the door. An anodized trim shall be installed on the edge of the following side of the door for a finished appearance. The use of finger holes or screw on cabinet handles is unacceptable.

POSITIVE CLOSURE DEVICES ON HINGED DOORS: Bidder Complies YES _____ NO _____

All hinged doors shall be equipped with a positive closure device such as a polished stainless steel Southco slam latch. Magnet or roller type catches are unacceptable hardware for this application. The use of positive latching types of hardware will prevent inadvertent opening when in motion.

UNISTRUT SHELVING STANDARDS, INTERIOR CABINET SHELVES: Bidder Complies YES _____ NO _____

The interior cabinets of the vehicle shall be provided with Unistrut shelving standards. The standards shall be aluminum with the approximate dimensions of 3/8" by 1" wide. The Unistrut shall be securely fastened to the interior of the cabinets with #10 threaded fasteners.

INTERIOR ENTRANCE DOORS Bidder Complies YES _____ NO _____

All entrance door panels shall be mounted with machine screw threaded fasteners which are installed with thread locking, Loc-Tite material.

INTERIOR ENTRANCE DOOR PANELS, w/BRUSHED ALUMINUM LOWER PANELS : Bidder Complies YES____ NO____

The inside surface of the entrance doors shall have three (3) sections. The upper shall be an aluminum panel covered with high pressure plastic laminates which matches the interior cabinets. The center area which covers the door hardware shall be a padded vinyl .The side Entrance and the rear LOWER panels shall be brushed aluminum to accommodate Chevron Striping. The panels shall be held in place with threaded mechanical fasteners and be removable for servicing of door hardware.

SIDE ENTRANCE DOOR HEAD BUMPER: Bidder Complies YES____ NO____

A cushioned, matching vinyl covered "bump protection" head bumper shall be mounted in the interior of the side entrance door area. It shall be designed to provide both onward and upward contact protection

REAR ENTRANCE DOOR HEAD BUMPER: Bidder Complies YES____ NO____

A cushioned, matching vinyl covered "bump protection" head bumper shall be mounted in the interior above the Rear entrance doors. It shall be designed to provide both onward and upward contact protection

INTERIOR GRAB RAILS

GRAB RAIL RETENTION: Bidder Complies YES____ NO____

All ceiling grab rails installed in the ambulance shall meet the requirements of the A.M.D grab rail retention test. Test documentation shall be provided upon request.

72" CEILING GRAB RAIL, OVER SQUAD BENCH: Bidder Complies YES____ NO____

A satin finish stainless steel grab rail shall be installed in the ceiling over the squad bench. It shall be 72" long x 1 1/4" in diameter with welded stanchions every 24". It shall have fully radiused ends to eliminate a head injury hazard. The use of grab rails which do not have fully welded construction is unacceptable. The grab rail shall be bolted directly to the structure members of the ceiling framework.

72" CEILING GRAB RAIL OVER COT: Bidder Complies YES____ NO____

A satin finish stainless steel grab rail shall be installed in the ceiling over the cot. It shall be 72" long x 1 1/4" in diameter with welded stanchions every 24". It shall have fully radiused ends to eliminate a head injury hazard. The use of grab rails which do not have fully welded construction is unacceptable. The grab rail shall be bolted directly to the structure members of the ceiling frame work.
Grab rail, "L" Shaped, Facing Stepwell - (For Medic-In-Mind Cabinet)

18" STAINLESS STEEL GRAB HANDLE: Bidder Complies YES____ NO____

One (1) "L" shaped satin finish stainless steel grab handle shall be installed on the custom squad bench cabinet. The grab rail will be mounted facing the step area. Each shall be fabricated from 1 1/4" diameter tube and have radiused ends, which match the overhead grab rail.

18" STAINLESS STEEL GRAB HANDLES REAR DOORS: Bidder Complies YES____ NO____

One (1) 18" satin finish stainless steel grab handle shall be installed at each rear entrance door. Each shall be fabricated from 1 1/4" diameter tube and have radiused ends, which match the over-head grab rail.

SIDE ENTRANCE DOOR GRAB RAIL, 45 DEGREE: Bidder Complies YES____ NO____

The side entrance door shall be equipped with a custom built 45 degree grab handle which extends from under the door window in the horizontal plane and then diagonally to the lower outside corner of the door. The grab rail shall be fabricated from satin finish stainless steel 1 1/4" diameter tube with fully welded construction. The grab handle shall be bolted directly to the structural members with the door with the use 1/4-20 threaded fasteners.

INTERIOR DOOR GRAB HANDLES: Bidder Complies YES____ NO____

One (1) 12" satin finish stainless steel grab handle shall be installed on the interior of each rear entrance door, under the window. Each shall be fabricated from 1 1/4" diameter tube and have radiused ends, which match the over-head grab rail. The grab handles shall be bolted to reinforced members welded within each door.

SEAT BELTS

SEAT BELTS, SQUAD BENCH: Bidder Complies YES____ NO____

Two (2) sets of lap seat belts shall be installed for persons seated on the squad bench. All seat belts shall have enclosed male automatic locking retractors with push button releases and fixed female buckles. All seat belts and seat belt mounts shall be tested to F.M.V.S.S. 210 and Federal Specifications KKK-A-1822. Documentation shall be available upon request.

SEAT BELT, REAR FACING ATTENDANT SEAT: Bidder Complies YES____ NO____

One (1) lap seat belt shall be installed at the rear facing attendant seat. The seat belt shall have enclosed male automatic locking retractor with a push button release and a fixed female buckle. The seat belt and seat belt mount shall be tested to F.M.V.S.S. 210 and Federal Specifications KKK-A-1822. Documentation shall be available upon request.

SEAT BELT, LEFT SIDE ATTENDANT SEAT: Bidder Complies YES____ NO____

One (1) Seat belt shall be installed at the left side attendant seat. The seat belt shall have an enclosed male automatic locking retractor with a push button release and a fixed female buckle. The seat belt and seat belt mount shall be tested to F.M.V.S.S. 210 and Federal Specifications KKK-A-1822. Documentation shall be available upon request.

COT MOUNTING

PERFORMANCE LOAD -WITH INDUCTIVE CHARGER & FLOOR PLATE: Bidder Complies YES____ NO____

There shall be a Stryker Performance-LOAD with Inductive Charger and Floor Plate - (SAE Compliant) provided and installed in the vehicle.

PERMANENT MOUNTED IV HOLDER

RECESSED DUAL IV HOLDERS: Bidder Complies YES____ NO____

Two (2) Cast Products Rubber "Recessed" dual IV holders shall be installed in the ceiling over each aisle. The holders shall be bolted to reinforcing plates located within the ceiling and include a Velcro strap for securing IV during transport.

RECESSED DUAL IV HOLDERS: Bidder Complies YES____ NO____

Two (2) additional Cast Products Rubber "Recessed" dual IV holder(s) shall be installed. The holders shall be bolted to reinforcing plates located within the ceiling and include a Velcro strap for securing IV during transport. The dual IV holders shall be located as follows; (1) Additional in Duct Raceway at the head end of the cot, and (1) Additional in Duct Raceway at the foot end of the cot.

INTERIOR SURFACE FINISHES AND COLORS

CEILING PANEL:

Bidder Complies YES_____ NO_____

The ceiling panel of the ambulance shall be high impact thermoplastic panel laminated to a 1/4" subpanel. The entire assembly shall be bolted directly to the ceiling structural framework. The panel shall be the fire retardant grade. All components (Including Lights, IV Holders and Grab Rails) mounted to the ceiling shall be mounted to the structural frame work of the ceiling. Under no circumstances shall anything be mounted to the ceiling panel only. The ceiling panel shall be attached to the vehicle framework without the use of visible hardware.

INTERIOR COLORS:

Bidder Complies YES_____ NO_____

The interior color of the upper laminated cabinets shall be Fashion Grey with a high gloss finish. The interior color of the lower laminated cabinets shall be Cloud Nebula with a high gloss finish.

INTERIOR UPHOLSTERY AND PADDED SURFACES

HEAD BUMPERS:

Bidder Complies YES_____ NO_____

Vinyl padded head bumpers shall be installed in areas where head injury can occur. One (1) located at the rear door, one (1) at the side door and one (1) at the cab to body door. Full padding shall be provided around the cabinets on the left side attendant seat area.

HEAVY DUTY UPHOLSTERY, SEAMLESS:

Bidder Complies YES_____ NO_____

All upholstery used in the vehicle shall be a High Quality Automotive Grade Vinyl Upholstery. All upholstery shall be seamless flat upholstery utilizing minimal stitching on the outside corners. All material shall meet the requirements of FMVSS 302. Upholstery Color: Bright Blue.

ATTENDANT SEAT, EVS WITH 3 POINT HARNESS, ABS BACK, SWIVEL, SEWN VINYL, BLUE:

Bidder Complies YES_____ NO_____

The ambulance shall be provided with an EVS brand, model 17703 rear facing swivel attendant seat. The seat shall include a three point harness, ABS seat back and be mounted on an EVS brand, model SB-8 swivel base. Seat shall have forward and back adjustment, and swivel to eight positions. All seats and seat installations shall be tested and certified to meet FMVSS standards. It shall be covered in sewn blue upholstery to match the balance of the vinyl in the ambulance.

INTERIOR FLOORING FINISH

ROLL-UP FLOORING 3" – LONCOIN #150 ONYX:

Bidder Complies YES_____ NO_____

The flooring on both the left side wall and right side squad bench shall incorporate a three inch roll-up section of the vinyl flooring material. The flooring material shall be finished with an anodized aluminum trim. The trim shall be secured in place with mechanical fasteners and have a tapered top surface to prevent accumulation of dirt and foreign material. The underside shall be designed in such a way to prevent infiltration behind the trim. This is required to eliminate the possibility of foreign liquid material from becoming trapped behind the flooring where it cannot be disinfected.

DRIVERS CAB CONSOLE

CAB CONSOLE, TYPE I FLOOR MOUNTED:

Bidder Complies YES_____ NO_____

An individually designed custom Cab Console shall be provided and mounted to the floor of the cab. It shall be equipped with a quick hinged lid for access when servicing. The console shall follow the contours of the floor to minimize its protrusion and overall height. The console shall be covered with 1/8" padded black vinyl cover. All switches and controls shall be within easy reach of both the driver and passenger. The console shall be designed to allow room for permanent mounted flush two-way communication radio(s).

MAP BOX: Bidder Complies YES _____ NO _____

A map box shall be fabricated and installed behind the cab console. The box shall be fabricated and laminated to match the interior cabinets in the ambulance. The map box shall also include one 3/16" removable Lexan divider, which divides the area into a maximum of two sections. The map box shall incorporate (2) two cup holders.

"FASTEN SEAT BELT" AND "NO SMOKING" SIGNS: Bidder Complies YES _____ NO _____

Two (2) large face "No Smoking" signs and one (1) Fasten Seat Belt sign shall be installed in the patient compartment and cab of the ambulance.

OXYGEN AND ASPIRATION SYSTEMS

OXYGEN SYSTEM: Bidder Complies YES _____ NO _____

The Oxygen delivery system shall consist of a permanent mount DOT approved Medical Oxygen Cylinder. The oxygen line from the cylinder to the distribution outlets shall be oxygen cleaned, high pressure electrically conductive, "Green" hose with swaged fittings. All fittings and hardware used shall be Medical Oxygen Quality and cleaned for oxygen use.

All oxygen hose shall be encased in high temperature protective loom to avoid chafing and physical damage. All fittings shall be completely accessible for service or inspection without the removal of any cabinets or wall panels. The entire system shall be installed, inspected, tested and labeled per the requirements of Federal Specifications KKK-A-1822. The oxygen storage cylinder shall be accessible through a transparent door for manual on/off control of the main valve and to visually monitor the tank pressure on the regulator gauge.

OXYGEN SYSTEM: Bidder Complies YES _____ NO _____

The oxygen, vacuum and air systems in the vehicle shall be compatible with OHIO equipment unless otherwise specified.

DUAL OXYGEN OUTLET: Bidder Complies YES _____ NO _____

One (1) Amico AMIZTH0202 dual oxygen outlet shall be flush mounted within the Life Support Station panel. The distance from the primary patient to the Life Support Station shall not exceed 35" per the requirements of KKK-A-1822.

SINGLE OXYGEN OUTLET RIGHT SIDE WALL: Bidder Complies YES _____ NO _____

One (1) single Amico AMIZTH0101 oxygen outlet shall be provided on the right side of the ambulance in the right side wall above the squad backrest, below the overhead cabinet the outlet shall be built in flush and not protrude more than 1" beyond the wall.

CEILING MOUNTED OXYGEN OUTLET, REAR: Bidder Complies YES _____ NO _____

An Amico AMIZTH0101 oxygen outlet shall be installed in the rear ceiling raceway 9" off the rear doors 6" off the rear head bumper. The outlet shall be near flush in the ducted climate control center wire raceway and not protrude more than 1/2" below the ceiling panel.

OXYGEN SHUT OFF SOLENOID: Bidder Complies YES _____ NO _____

An Amico AMIZTH0120 electric powered oxygen shut off solenoid shall be installed and mounted on the output of the oxygen bottle regulator. It shall be controlled by a switch located at the rear Life Support Panel. The solenoid shall be approved for medical oxygen use and be equipped with a manual override valve (in the event the electric solenoid may fail to open the valve). An electrical rectifier shall be installed in the circuit to prevent voltage spikes from entering the electrical system.

ELECTRIC SUCTION/ASPIRATION SYSTEM: Bidder Complies YES_____ NO_____

The vehicle shall be equipped with a permanently installed Suction/Aspiration System. The system shall be equipped with a high volume Thomas electric suction pump certified for use in all states, with a 30 liter per minute flow rate. The pump shall be activated from a relay controlled circuit and switch, on the Life Support switch panel. The pump shall be mounted in an enclosed compartment using rubber isolators to minimize any noise and vibration when in use. The pump shall be connected to an onboard collection bottle permanently attached to the counter near the primary patient. The connecting hose shall be fiber reinforced medical hose and loomed to prevent chafing. The entire system shall be tested and meet the criteria of KKK-A-1822. Test Documentation shall be available upon request. As with the oxygen delivery system all fittings and lines shall be accessible for inspection and service without the removal of cabinets or walls.

SSCOR DISPOSABLE COLLECTION SYSTEM: Bidder Complies YES_____ NO_____

On Board suction shall be provided with a SSCOR disposable system. System shall include SSCOR wall mounted white faced, regulator and disposable Bemis collection bottle mounted in stainless steel bracket mounted on wall per customer location. The collection bottle location is to be 11" to bottom of bracket.

OXYGEN PRESSURE GAUGE, TANK PRESSURE: Bidder Complies YES_____ NO_____

An oxygen pressure gauge; 2" analog dial for tank pressure shall be installed in the Life Support Station area of the vehicle. The gauge shall be full scale type for Medical oxygen use. It shall be connected to the main oxygen cylinder with a high pressure (3,000 PSI working pressure) Parflex flexible line with high pressure fittings (braided stainless steel is not acceptable).

OXYGEN BOTTLE MOUNT, UNIVERSAL MOUNT: Bidder Complies YES_____ NO_____

The vehicle shall be equipped with a mount for an "M" or "H" oxygen cylinder in the oxygen storage compartment. The mount shall be an approved Ziamatic Model QR-MV, oxygen bottle retention system for an "M" or "H" size bottle. The mounting bracket shall be securely bolted to two Uni-Strut tracks welded to the vehicle framework. The entire mounting system shall be tested to the requirements of AMD-003; oxygen tank retention system. Test Documentation shall be provided upon request. The use of mounting brackets other than Ziamatic brand is unacceptable.

LARGE TANK OXYGEN REGULATOR: Bidder Complies YES_____ NO_____

One (1) Model #12-001540 (aka 1633-2), large tank oxygen bottle regulator shall be provided and installed.

OXYGEN CYLINDER WRENCH: Bidder Complies YES_____ NO_____

An oxygen cylinder wrench shall be permanently attached to the wall of the oxygen compartment in a custom wrench holder. There shall be a permanent lanyard attachment to both the wrench and the compartment, designed to prevent loss of the wrench.

ELECTRICAL SYSTEMS

LIFETIME ELECTRICAL SYSTEM WARRANTY Bidder Complies YES_____ NO_____

Manufacturer will warranty to original purchaser that the supplied electrical equipment as listed below are sound and free of all defects of both materials and workmanship, for the life of the vehicle or 100,000 miles whichever occurs first. This electrical equipment includes body door post switches, all wire terminals and crimps, main vehicle wiring harness and battery harness cables, relays, switches, automatic/manual reset circuit breakers, voltmeter, ammeter, battery disconnect switches, solenoids, all terminal strips, manufacturer installed electrical connections and power distribution panel. Warranty is transferable subject to inspection by manufacturer. Bidder must include statement of warranty policy with bid.

ELECTRICAL 12 VOLT:

Bidder Complies YES_____ NO_____

The entire 12 volt Electrical System shall comply with the recommended standards and practices per FMVSS, Federal Specifications KKK-A-1822 & SAE where applicable.

Electrical system provided by the ambulance Manufacturer shall have Lifetime Electrical Warranty.

The entire 12 volt DC Electrical System shall incorporate GXL High Temperature Copper wire. Each wire shall be color coded with function imprinted every four inches for immediate identification. All exposed wiring shall be covered with Packard Flec or equal, black with gray stripe, convoluted loom with minimum of 300 degree F. Temperature rating. Loom with a lower temperature rating is cause for rejection. Large Heyco type or rubber insulators shall be used where wires pass through sheet metal or structural members. All circuits shall be protected with circuit breakers suitable to the circuit demand. Any wire carrying a load to an appliance in the 12 volt Electrical System shall be 16 gauge wire minimum.

Electrical System shall consist of five main wiring harnesses which terminate at the Electrical Distribution Panel. Distribution Panel shall be centrally located with connections resulting through 45 pin Connectors. Harnesses shall include:

- (1) Rear body, referred to as Harness #1 (standards: dome, fluorescent, floods, vent, compt. lights/ switches)
- (1) Rear body, referred to as Harness #2 (flashing lights, air compressors, cancel switches, options)
 - (1) Rear switch panel, referred to as Harness #3
 - (1) Front console, referred to as Harness #4
 - (1) Cab/ chassis/ under-hood, referred to as Harness #6

All Electrical components shall be mounted using a "plug in" type assembly which affords speedy replacement of failed components. The entire unit shall be housed in a readily accessible maintenance cabinet built into front wall of the personnel compartment. Attached to inside of door shall be complete documentation of 12 volt Electrical System. The use of exterior compartment mounted electrical distribution panel is unacceptable.

The main power distribution panel shall consist of a plug-in modular system which includes locations for 42 plug-in circuit breakers and 60 plug-in relays, as standard equipment. This type of system is utilized to have standard circuit configuration while remaining totally flexible for custom circuits when required. All circuits shall consist of plug-in relays and plug-in circuit breakers only. The use of diodes, rectifiers, heat sinks, or other than automotive type relays is unacceptable.

CIRCUIT BREAKERS:

Bidder Complies YES_____ NO_____

All circuit breakers 30 amp or less, shall be plug in Manual and or Auto Reset type. All circuits which require greater capacity shall utilize a Cooper Electric or equal 40 or 50 amp "MAXI-AMP" manual or auto reset circuit breaker, dependent on electrical application.

RELAYS:

Bidder Complies YES_____ NO_____

Devices being switched with loads in excess of one (1) amp (12 watt) shall be accomplished through Potter & Brumfield or equal, 40 amp SPDT 12 volt automotive relay switching devices. All relays used in the panel shall be of the same type to insure complete compatibility and ease of re-placement. Relays shall be controlled through a ground signal from all switches, including door post switches. All relays shall be plugged into the modular panel assembly including the 70 amp power relays where required. All relay circuits utilizing the SPDT relays and SPST 70 amp relay shall include internal suppression to eliminate voltage spikes in the electrical system.

GROUNDING:

Bidder Complies YES _____ NO _____

All Modular Bodies shall be grounded to the vehicle chassis with two (2) 0 GA braided, tinned copper grounding straps Circular copper conductors (battery cables) shall not be used. These ground straps meet requirements of both KKK-1822-F and Ford QVM Bulletin Q-18.

Each appliance (i.e. lights, fans) shall be grounded to the body structure in close proximity to its location or by a ground harness as required. The ground shall be equivalent to its feed wire size and be minimized in length. Each ground attached directly to the vehicle structure shall use machine screws with star washers or ring terminals with serrated ring to insure a positive contact at all times.

All Body harnesses shall be contained within the body. Harnesses shall not run on the underside exterior of the body. Under hood harness shall be protected within high temperature convoluted loom. All connections exposed to the elements, or under hood, shall be made within "waterproof" heat shrink connections. This type of connection shall also be used on all heavy duty battery cables. All battery cables, both positive and ground shall be machine crimped and fully soldered prior to addition of waterproof heat shrink tubing. Any exposed connections not in heat shrink and battery connections not soldered shall be rejected. All Electrical Systems shall include three (3) spare relays and spares of the correct size circuit breakers utilized, shall be mounted within the Electrical Distribution Panel.

12V - 110 VOLT CIRCUIT SCHEMATIC DOCUMENTATION:

Bidder Complies YES _____ NO _____

All harnesses, relays, circuit breaker terminal junction points and circuits shall be drawn on individual 8 1/2 x 11 size drawings. Each individual circuit shall be on (1) drawing, for ease of troubleshooting. A single drawing overall schematic is unacceptable. All electrical systems shall be designed for each vehicle. Generic or similar drawings are cause for rejection of vehicle. All schematics shall include only what circuits are provided in the proposed vehicle.

ELECTRICAL ANALYSIS:

Bidder Complies YES _____ NO _____

Proper balance of the electrical system output and vehicle draw is critical in the design of all emergency vehicles. Vehicle proposed shall be provided with a detailed electrical analysis generated by the manufacturer of the ambulance and specific to this proposed vehicle and specific electrical equipment requested. General statements will not be acceptable.

DOOR POST SWITCHES ENTRANCE AND COMPARTMENT DOORS:

Bidder Complies YES _____ NO _____

Sealed door post switches shall be installed in all entrance and compartment doors. All switches shall be sealed from the elements to prevent moisture damage and to prolong service life. The switches shall be warranted for lifetime of vehicle. All door post switches shall activate the grounds of relays only. Under no circumstances shall the door post switch carry more than 140 milliamp of electrical current.

ALTERNATOR:

Bidder Complies YES _____ NO _____

The alternator shall be installed by Ford Motor Company in the approved Ambulance Prep Chassis. The OEM alternators shall be a dual alternator system with total capacity of 355 amps. The charging system shall not be modified in any way to void its warranty.

BATTERIES:

Bidder Complies YES _____ NO _____

The two (2) Ford, heavy duty truck batteries shall be located under the hood in the OEM factory location.

IGNITION ACTIVATED, MODULE DISCONNECT :

Bidder Complies YES _____ NO _____

A high current disconnect device shall be installed per the requirements of KKK-A-1822 to power all ambulance vehicle conversion and modular body functions. The device shall be activated by the chassis ignition signal, and shall have a 5 minute off delay for module functions when the chassis ignition switch is turned off.

WATERPROOF DEUTSCH TYPE CONNECTORS: Bidder Complies YES _____ NO _____

Electrical connectors used on added circuits of less than 20 Amps under the chassis hood and the chassis fenders shall be high quality, waterproof Deutsch type. Unsealed connectors in these areas are unacceptable. Sockets and pins shall be machined type. Stamped contacts are unacceptable.

FRONT AND REAR SWITCH PANEL EQUIPMENT AND SYSTEMS

VOLTMETER: Bidder Complies YES _____ NO _____

An analog type voltmeter shall be installed within easy view of driver. The voltmeter shall be circuit breaker protected. The use of digital voltmeters is unacceptable due to its difficulty to read at a glance. The voltmeter shall be tied to the battery side of the master disconnect switch to allow a constant reading on the voltmeter when the switch is off.

Low Voltage Alarm & Indicator

LOW VOLTAGE ALARM: Bidder Complies YES _____ NO _____

A Low Voltage System with a dual indicator light green/red shall be installed in the driver's console. The Green indicates voltage system is above 11.8 volts. The Red shall indicate when system voltage drops below 11.8 volts for more than 2 minutes and vehicle needs to reduce load. At that time an audible alarm will sound. The alarm will be provided with a cancel switch to momentary silence the alarm. The red light will remain on both the switch legend and the indicator until the system returns to 12.8 volts or above.

SWITCHES: Bidder Complies YES _____ NO _____

All switches shall be 12 volt two (2) or (3) position heavy duty Carling Contura X, Full size, Euro-Look Rocker switches, with a black matte finish. Small rocker switches or push style switches are not acceptable substitution. Each switch shall have an integral pilot light which shall activate in the "On" position, including the Horn/Siren switch. The only switches that shall not have a pilot light are momentary switches, where they are not available. No switch shall carry more than one (1) Amp of power, (12 watts). For ease of service and supporting a lifetime electrical warranty, all switches shall have a plug in connector on the bottom of the switch contacts.

All switches shall be mounted in a custom designed one piece panel for each vehicle. The switch panel shall be backlit Light Emitting Diode lighting behind the individual switch legends. The switch panels shall be finished in a black matte finish. All custom legends shall be made of matte black Lexan inserts with translucent lettering to designate each function. When complete, the surface of the panel shall have a look of a homogeneous surface without the need for white legends which appear to be an added on feature. Due to the superior backlighting of the LED, no exception is allowed. All switch circuits shall be designed for the life of the vehicle.

Battery On indicator light

BATTERY "ON" INDICATOR: Bidder Complies YES _____ NO _____

A Master battery "On" indicator shall be installed on the driver's console of vehicle. The indicator shall be a minimum of 1/2" in diameter and glow whenever the batteries are connected to the system.

DOOR OPEN INDICATOR LIGHT: Bidder Complies YES _____ NO _____

A Red indicator light shall be installed in the drivers switch console to indicate that an entrance door is ajar. The light will activate whenever the master battery disconnect switch is activated and an entrance

door is opened. The indicator shall be a minimum of 1/2" in diameter. The door open indicator shall be relay controlled and the door post switches shall activate the relay.

COMPARTMENT OPEN INDICATOR LIGHT: Bidder Complies YES____ NO____

An Amber indicator light shall be installed in the drivers switch console to indicate that a compartment door is ajar. The light will activate whenever the master battery disconnect switch is activated and a compartment door is opened. The indicator shall be a minimum of 1/2" in diameter. The compartment open indicators shall be relay controlled and the door post switches shall activate the relay.

AUDIBLE DOOR/COMPARTMENT OPEN ALARM: Bidder Complies YES____ NO____

A high decibel, electronic beeper alarm shall be installed and activate, when a module entrance door or compartment door is opened. The alarm shall sound only when the vehicle is placed in drive or reverse and be independent of the door open/compartment open warning lights in the console. The warning lights shall activate anytime an entrance or compartment door is opened.

PARKING BRAKE ALARM AND INDICATOR: Bidder Complies YES____ NO____

The vehicle shall be equipped with a Dual-Mode alarm that will sound when the vehicles shift lever is in Neutral and the Parking Brake is not applied. Secondly the alarm will sound when the vehicle gear selector is in reverse or a forward drive gear and the Parking Brake is applied. The alarm shall include an indicator light in the drivers console and an audible alarm that will sound when the condition exists when the vehicle is in the run mode and when the emergency sequencer switch is on.

ELECTRONIC THROTTLE, FORD: Bidder Complies YES____ NO____

The Ford Chassis shall be equipped with an electronic throttle device which is specifically designed for use in emergency vehicles. The unit shall be included with the chassis provided by Ford, with the Ambulance Prep Package. The unit shall be mounted in a concealed location in the underside of the drivers switch console.

BACK-UP ALARM WITH DISABLE SWITCH: Bidder Complies YES____ NO____

An ECCO 610N with 97 dB rating backup alarm shall be installed under the rear step area of the vehicle. The back-up alarm shall have encapsulated electronics and no exposed terminals- all connections shall be water tight. The back-up alarm shall be activated any time the vehicle is shifted into reverse gear. A relay controlled momentary cancel switch shall be installed in the drivers console to disable the backup alarm when it may not be required. The circuitry shall be designed to allow the alarm to be reset automatically and function the very next time the vehicle is placed in reverse. On-Off type switch is not acceptable.

UNITY SPOTLIGHT, WITH BRACKET: Bidder Complies YES____ NO____

A hard wired Unity Handheld Spotlight shall be provided. The light shall have a 5" 100,000 CP bulb with a momentary "ON" switch located on the handle. A custom designed aluminum bracket shall be fabricated to hold the light when not in use. The bracket shall be plastic dipped to protect the bulb surface and light from vibration. The bracket shall be supplied for the customer to mount. Lights installed with hooks or no holders are unacceptable.

LOAD MANAGER/ SEQUENCER: Bidder Complies YES____ NO____

A combination Load Manager/Sequencer shall be installed in the driver's console. The Load Manager shall automatically shed load to maintain balance between alternator output and draw, by turning predetermined functions to the off position. The Load Manager shall include an override emergency bypass switch in the main electrical panel. The sequencer function turns the emergency lighting on, one at a time in a predetermined order, and turns them off in reverse order.

ENTRANCE DOOR POWER DOOR LOCK SWITCHES: Bidder Complies YES____ NO____

The power door lock mechanisms shall be controlled by the OEM door switches.

REMOTE KEYLESS ENTRY: Bidder Complies YES _____ NO _____

The power door lock switch located on the drivers' and passengers' side cab doors shall be wired to activate the power lock/unlock function of the ambulance body entrance doors (and compartment doors when power feature is specified). The switch shall be tied to the battery side of the master disconnect switch and function whenever depressed.

In addition to the cab door control of the power door locks, a remote keyless entry system shall be installed. The system shall lock and unlock the cab and ambulance doors as specified above. The vehicle shall be delivered with two remote keyless entry devices and programmed to operate with the vehicle. The remote device shall be capable of being attached to the key ring of the vehicle.

SIDE ENTRANCE DOOR POWER DOOR LOCK SWITCH: Bidder Complies YES _____ NO _____

A double throw momentary switch shall be provided inside the side door area near the load light cancel switch - above the fluorescent light timer, for activating the power lock/unlock function of the ambulance body entrance doors (and compartment doors when power feature is specified). Press up for lock, push down for unlock.

POWER DOOR LOCKS OVERRIDE SWITCH: Bidder Complies YES _____ NO _____

A concealed emergency override switch shall be provided and located behind the grille.

EMERGENCY WARNING SYSTEMS

HEADLIGHT FLASHER: Bidder Complies YES _____ NO _____

A Sound Off, Inc., headlight flasher shall be installed to alternately flash the vehicles high beam lights. The unit shall be hermetically sealed solid state unit controlled by a single pole lighted switch in the driver's console. The circuit shall be relay controlled. The unit shall be installed per manufacturer's recommendations and shall not affect the vehicles lighting system. The unit shall be disabled when the headlight switch is on. A Sound Off, Inc., headlight flasher shall be set to the "Q-Switch", slow wig-wag pattern, which is a multi-pattern flash sequence.

LIGHTED HORN/SIREN SWITCH: Bidder Complies YES _____ NO _____

A switch shall be installed in the drivers console to select between OEM Horn ring function of the vehicle Horn or Horn ring activation of the Siren. The switch shall have a lighted indicator and control a SPST relay located within the electrical distribution cabinet. A relay controlled circuit is required to eliminate any potential voltage drop problems due to high amperage draw of the OEM Horns.

ELECTRONIC SIREN, WHELEN 295HFSC9, DUAL-TONE: Bidder Complies YES _____ NO _____

A Whelen Engineering Company Model 295HFSC9 dual tone 200 watt Siren with removable microphone shall be provided and installed flush in the driver's console. The siren shall include standard siren tones, radio repeat, public address, wail, yelp, and air horn. The siren operates in dual or mono modes. The siren shall be backlit for night operation and include a removable microphone. Siren shall be a remote siren amplifier and include self-diagnostics to warn the driver about a potential problem with the siren.

BUMPER SIREN SPEAKER SYSTEM: Bidder Complies YES _____ NO _____

Cast Products Model SAD/P, 3806 Bumper Siren Speaker system shall be installed in the front bumper of the vehicle. The system shall include two (2) high efficiency 100 watt speaker drivers.

FLASHING LIGHTS, GRILLE: Bidder Complies YES _____ NO _____

Four (4) lights shall be placed in the grille of the vehicle in flange housings. Two of the lights shall be located in the upper portion of the grille area, set a minimum of 18" apart. . Two of the lights shall be located in the lower portion of the grille area, set a minimum of 18" apart. The lights shall be Whelen 500 Linear LED, Red with a Clear lens cover. Specific fitted grille flanges shall be provided for grille lights selected. The grille lights are to flash in an "X" pattern in conjunction with the KKK flasher.

LED FLASHING WARNING LIGHTS, INTERSECTION: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with LED flashing warning lights. Two lights shall be installed, one each side front fender as far forward as possible. The lights shall include integrated Cast Products flange housings, designed for this fixture. The lights shall be Whelen 700 Super LED, Red with a Clear lens cover.

WHELEN DIRECTIONAL, AMBER ARROW LIGHTS, FRONT: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 600 Series Super-LED Amber Arrow lights with clear lenses. The vehicle shall include (2) Light assemblies located on the upper area of the front body. All lights shall include metalized flange chrome housing, designed for this fixture.

VANNER ELECTRONIC FLASHER FOR BODY LIGHTS: Bidder Complies YES _____ NO _____

An Electronic Flasher shall be installed to power all Body& Cab LED flashing lights. The flasher shall have (3) alternating outputs. The circuit shall be powered by an independent 50 Amp rated auto reset circuit breaker and the flasher shall contain internal short circuit protection. A primary /secondary switch will be installed. The flasher and flashing light system shall meet all the requirements of KKK-A-1822 KKK flash pattern. Primary is all warning lights on, secondary mode will shut down all lower level lights and center white on front of box.

WHELEN LINEAR-LED FLASHING WARNING LIGHT, FRONT, UPPER LEFT: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper left portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHTS, FRONT UPPER LEFT: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper left portion of the body, and located inboard of the outermost flashing light. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a horizontal split light, Red/ White with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHTS, FRONT UPPER LEFT: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper left portion of the body, located just outboard of the center flashing light. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN SUPER-LED FLASHING WARNING LIGHT, FRONT UPPER CENTER: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper center of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be White with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHTS, FRONT UPPER RIGHT: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper right portion of the body, located just outboard of the center flashing light. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHTS, FRONT: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper right portion of the body, located inboard of the outermost flashing light. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be a horizontal split light, Red/ White with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHTS, FRONT UPPER RIGHT: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the front, upper right portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHTS, UPPER LEFT SIDE, FORWARD: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the left side, upper left, forward portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHTS, UPPER LEFT SIDE, REARWARD: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the left side, upper left, aft portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHTS, UPPER RIGHT SIDE, FORWARD: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the right side, upper forward portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHTS, UPPER RIGHT SIDE, REARWARD: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the right side, upper aft portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHT, REAR, UPPER LEFT: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the rear upper left portion of the body. All lights shall include metallized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHT, REAR, UPPER CENTER: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the Rear, upper Center of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Amber with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHT, REAR, UPPER RIGHT: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the rear upper right portion of the body. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHTS, REAR AT WINDOW LEVEL TO FLASH IN "X" PATTERN: Bidder Complies YES _____ NO _____

All lights at the rear window level shall flash in a rapid "X" pattern, independent of the KKK flasher.

WHELEN LINEAR-LED FLASHING WARNING LIGHT, WINDOW LEVEL, REAR, LEFT PANEL: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the Rear left panel. The light is situated so when the back door is open, the light shall be visible through the upper portion of the door window. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHT, WINDOW LEVEL, REAR, LEFT PANEL: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the Rear left panel. The light is situated so when the back door is open, the light shall be visible through the lower portion of the door window. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Amber with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHT, WINDOW LEVEL, REAR, RIGHT PANEL: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the Rear right panel. The light is situated so when the back door is open, the light shall be visible through the upper portion of the door window. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Red with a clear lens cover.

WHELEN LINEAR-LED FLASHING WARNING LIGHT, WINDOW LEVEL, REAR, RIGHT PANEL: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED warning light. The vehicle shall include one (1) light assembly on the Rear right panel. The light is situated so when the back door is open, the light shall be visible through the lower portion of the door window. All lights shall include metalized flange chrome housing, designed for this fixture. The Light shall be Amber with a clear lens cover.

WHELEN SPLIT LED FLASHING WARNING LIGHTS, OVER REAR WHEEL: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with Whelen 700 Series Split Liner Super-LED Combination flashing warning lights. Two (2) lights shall be provided, one over each rear wheel area. The color of the lights shall be split 1/2 Red/ 1/2 White w/clear outer lens. The lights shall incorporate integrated metalized flange chrome housing.

EXTERIOR VEHICLE LIGHTS AND EQUIPMENT

WHELEN LED VEHICLE TAIL LIGHTS: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with two (2) Whelen 600 Series LED red stop/tail lights. The lights shall be located on the lower outboard corners of each side of the rear of the vehicle. The body shall be designed in such a way to eliminate the lights from being exposed to the elements from the backside.

VEHICLE BACK-UP LIGHTS: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with two Whelen 600 Series rear backup lights, one each side on the inboard side of the lower panel. The lights shall operate any time the vehicle is placed in reverse. The light shall include integrated metalized chrome housing. The body shall be designed in such a way to eliminate the lights from being exposed to the elements from the backside.

WHELEN LED POPULATED AMBER DIRECTIONAL LIGHTS: Bidder Complies YES _____ NO _____

A pair of Whelen 600 Series LED amber arrow directional signal lights shall be installed on the rear of the vehicle directly above the stop/tail and back-up lights. The lights shall include integrated metalized chrome flange housing on each fixture.

MARKER/CLEARANCE LIGHTS: Bidder Complies YES _____ NO _____

LED Marker and Clearance lights shall be installed on the front rear and both sides of the body to meet all Federal lighting requirements FMVSS 108.

LOWER FLASHING MARKER LIGHTS: Bidder Complies YES _____ NO _____

Two (2) Lower marker clearance lights shall be installed on each side at the belt line area of the vehicle, one front, and one rear. The lights shall be wired to the side directional lights and activate any time the vehicles directional switch is activated. The marker clearance light shall also include an integrated reflex reflector into the lens.

RUNNING BOARD ILLUMINATION LIGHTS, LED: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with two four inch LED lights recessed into the front of the body at the level just above the cab running boards. The lights shall activate when the drivers or passenger side cab doors are open. The circuit shall be relay controlled and include an independent circuit breaker.

REAR EMERGENCY FLASHING LIGHTS, BRAKE LIGHTS: Bidder Complies YES _____ NO _____

The two (2) rear, red flashing warning lights located at the rear, window level portion of the body, shall be activated whenever the vehicles service brake is applied and the red flashing warning lights are on. These lights shall be activated through a transfer relay circuit which under no circumstances shall they be powered by the vehicles stop lamp switch only. The stop lamp switch shall power the coil of the transfer relay only.

UNDER BODY GROUND LIGHTS: Bidder Complies YES _____ NO _____

The under carriage of the vehicle shall be illuminated by six, water resistant, Sealed LED Lights mounted to the underside of the vehicle. The lights shall be installed in an enclosed cast aluminum light housing with large drain holes to eliminate water and road debris. The lights shall be relay controlled by a single pole switch in the driver's console.

WELDON LED SIDE SCENE LIGHTS: **Bidder Complies** YES _____ NO _____

Two (2) Weldon 9x7, # V79S 16 LED Scene lights shall be installed on the left upper side of the vehicle. The scene lights shall include metalized chrome flange housings specifically designed for each light. Cast aluminum housings are unacceptable.

WELDON LED SIDE SCENE LIGHTS: **Bidder Complies** YES _____ NO _____

Two (2) Weldon 9x7, # V79S 16 LED Scene lights shall be installed on the right upper side of the vehicle. The scene lights shall include metalized chrome flange housings specifically designed for each light. Cast aluminum housings are unacceptable.

WELDON REAR, 16 LED, SCENE LIGHTS: **Bidder Complies** YES _____ NO _____

Two (2) Weldon 9x7, # V79S 16 LED Scene lights shall be installed above the rear entrance doors of the vehicle. The scene lights shall include metalized chrome flange housings specifically designed for each light. Cast aluminum housings are unacceptable.

RIGHT SIDE SCENE LIGHT, CONTROL: **Bidder Complies** YES _____ NO _____

The right side scene lights of the vehicle shall be controlled by two modes. The first mode of operation is the right side scene lights shall function from the relay controlled circuit and lighted switch located in the driver's console. The second mode is the scene lights shall be activated when the right side entrance door is opened. All circuits shall be relay controlled. No load current shall pass through the door post switch.

LEFT SIDE SCENE LIGHT, CONTROL: **Bidder Complies** YES _____ NO _____

The left side scene lights of the vehicle shall function by the relay controlled circuit activated by the left scene lighted switch in the driver's console.

REAR SCENE LIGHTS: **Bidder Complies** YES _____ NO _____

The rear scene lights shall automatically activate when the rear door is opened or when the vehicle is placed in reverse. All scene light circuits shall be relay controlled.

REAR SCENE LIGHT SWITCH: **Bidder Complies** YES _____ NO _____

The rear scene lights mounted on the rear of the vehicle shall be controlled "on/off" by a single pole lighted switch located in the driver's console. The rear scene light switch shall override both backup function and the scene lights "on" with the door open function, and shall not be affected by those circuits.

RIGHT SIDE SCENE LIGHT CANCEL SWITCH: **Bidder Complies** YES _____ NO _____

A right side scene light cancel switch shall be installed directly inside the side entrance door. The switch shall be mounted within the interior wall or cabinet. The switch shall be a single pole momentary switch. The circuit shall automatically turn off the right side scene lights and the step well light with a single touch of the switch. The circuit shall automatically re-arm itself the next time the side entrance door is opened. The circuit shall be relay controlled. The use of a manual cancelling door post switch is unacceptable substitution.

REAR SCENE LIGHT CANCEL SWITCH: **Bidder Complies** YES _____ NO _____

A scene light cancel switch shall be installed directly inside the rear entrance door. The switch shall be mounted within the cabinet adjacent to the door. The switch shall be a single pole momentary switch. The circuit shall automatically turn off the flood lights with a single touch of the switch. The circuit shall automatically re-arm itself the next time the rear entrance doors are opened. The circuit shall be relay controlled. The use of a manual cancelling door post switch is an unacceptable substitution.

REAR SIDE FLOOD LIGHTS: Bidder Complies YES _____ NO _____

The left and right, rear side, flood lights shall activate when the vehicle is placed in reverse. The lights shall illuminate to provide better side illumination when backing up the vehicle during periods of darkness. The circuit shall be relay controlled, without the use of voltage reducing diodes or rectifiers. All flood and reverse circuits shall function independently when the vehicle is not in reverse.

CLIMATE CONTROL SYSTEM: Bidder Complies YES _____ NO _____

The Ambulance Climate Control System in the chassis shall only function when the vehicle is in the run mode. This shall be done to reduce the electrical load on the vehicle when the engine is not running.

FLOW-THRU VENTILATION: Bidder Complies YES _____ NO _____

A high volume power exhaust ventilation system shall be installed on the left rear side panel of the vehicle. It shall consist of a 280 CFM, (2) speed blower motor, connected to a welded aluminum, transfer plenum. This plenum is directly connected to a set of dual closeable intake vents mounted in the face of the interior rear corner cabinet. On the exterior, a Cast Products polished aluminum cowl vent with an internal, rubber back flow flap shall be installed on the exterior of the modular body. The cowl vent shall be installed using a EPDM 40 to 60 durometer rubber gasket. Single speed blowers or blowers with resistor type speed control are unacceptable. Installations which produce excessive noise due to vibration shall be cause for rejection.

AUXILIARY AIR CONDITIONING CONDENSER: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a Proair Model 109 series auxiliary air conditioning condenser. The air conditioning condenser shall be added to enhance the refrigerant cooling rate of the unit mounted in the chassis air conditioning system. The condenser shall be fan cooled by (2) condenser mounted 12 volt cooling fans. The fans shall be relay controlled and only activated when the rear air conditioner unit is activated. The cooling rating of the condenser shall be 40,000 BTU, and the air flow rate shall be 2,800 CFM.

DUCTED HEATER AND AIR CONDITIONING SYSTEM: Bidder Complies YES _____ NO _____

The unit shall have a minimum capacity of 40,000 BTU Air Conditioner and 60,000 BTU Heat operating with 12 volt power. The unit will have a high performance 650 CFM Brushless blower fan with a five (5) year warranty. A receiver-dryer shall also be installed on the evaporator case to remove moisture from the refrigerant system. The climate control unit shall be permanently attached to the double ductwork system running full length of the ceiling of the vehicle. Each duct shall be fully contoured with approximate dimensions of 5" wide and not protrude more than 2 3/4" from the ceiling. In addition each duct shall have four (4) equally spaced from front to rear, fully adjustable 4-way adjustable louvers with shut off feature at each register. The duct work shall be covered with a fully padded vinyl covering and incorporate the vehicles drop down wire raceway cover in the center. The heater/air conditioner unit shall be located in the front of the vehicle centered above the cab to body pass through. An air cleaner filter shall be installed in the return air grille located in the underside of the cabinet.

The climate control unit shall include a twin air return system. One mounted high and one mounted low for full air re-circulation. In addition the entire climate control unit shall be double insulated first by the standard body insulation and secondly by a fully encompassing 5/16" thick reflective insulation. The reflective insulation shall also extend the full length of the raceway duct as well as the front wall and ceiling of the climate control cabinet.

All heater hoses provided shall be OEM style EPDM rubber type. The use of lesser quality hose or silicone hose is an unacceptable substitution. The systems heater shall include an electric 2-way, internally piloted, normally closed solenoid valve which only opens when the heater unit is "On" and when the vehicle is running. The heater shut off valve shall also include an emergency shut off switch located within the rear power distribution panel. All Air Conditioner hoses shall be Goodyear Galaxy Type 4890. Barrier type hose shall be unacceptable.

No exceptions or deviations to this system will be allowed due to its superior air distribution system and low noise characteristics. An exception will be cause for rejection of bid. Bidder/manufacturer must provide proof that this is an operating climate control system, offered as a standard component in their emergency vehicle production. Prototype systems are not acceptable. A user list of vehicles utilizing this system shall be provided with the bid.

ELECTRONIC DIGITAL DISPLAY THERMOSTAT CONTROL: Bidder Complies YES _____ NO _____

A digital electronic Climate Control thermostat shall be used to monitor and control both air conditioning and heating in the rear patient compartment. The following features are included:

- A 1/2" backlit digital display, which displays both ambient and set temperatures. Ambient readout is displayed by default.
- Temperature adjustment is 50° F to 99° F or 10° C to 37° C.
- Seven (7) fan speeds standard. Three (3) and Five (5) speed options also available.
- The fan speed is easily controlled by using the color coded tactile up or down arrows.
- Manual mode and two (2) Automatic operation modes which maintain $\pm 2^\circ$ ambient temperature from the set point.
- In Auto 1 mode the fan speeds shall be automatically increased or decreased depending on the temperature differential in the vehicle. Fan speeds are also manually selectable.
- In Auto 2 mode the fan speeds shall be automatically increased or decreased depending on the temperature differential in the vehicle. Fan speeds are NOT manually selectable.
- LED Indicators- Auto-Light Blue, A/C-Blue, Heat-Red
- Operation shall be activated by chassis ignition with two (2) start-up modes available:
 - "PA" mode- Thermostat turns on using settings from the last use, including the 'OFF' condition.
 - "PL" mode- Thermostat turns on in Auto 1 mode with a set temperature of 72° regardless of previous settings.
- The thermostat unit temperature probe shall be located mid-level in the patient compartment.
- An additional control panel and remote fan speed switch are available.

The use of spring or bimetallic household thermostat is unacceptable. Only automotive type units shall be used.

AUXILIARY COOLANT PUMP CLIMATE CONTROL SYSTEM: Bidder Complies YES _____ NO _____

A Gorman-Rupp (GRI) auxiliary coolant pump with brushless motor shall be installed to increase coolant flow to the rear heater core. The pump shall be sized to provide required heat to rear unit, while not reducing the effective heat in the vehicle cab. A motorized hot water/coolant valve is part of this system to shut off the flow of hot water when not using heat. The pump and valve shall be controlled by the vehicle climate control system thermostat. The pump and valve shall be located in a protected location in a body compartment and easily serviceable if required.
Condenser Front Body Mounted on Pods

POD MOUNTED CONDENSER: Bidder Complies YES _____ NO _____

The air conditioning condenser shall be mounted to the front of the body with 2 aluminum angled Pods thru bolted to the body skin. The body skin shall be reinforced in that area. The condenser will be painted to match the vehicle's Vermillion Red

INTERIOR AND COMPARTMENT UTILITY LIGHTING

DOME LIGHTING: Bidder Complies YES _____ NO _____

Six (6) Whelen 80C0EHCR, Multiple-LED dome lights shall be equally spaced down both sides of the ceiling. Each light shall include the High/Low intensity feature. The lights shall be relay controlled and have a lighted double throw switch in the rear Life Support panel. All lights to be mounted to vehicle frame work, not to ceiling panel material.

DOME LIGHTS WITH DOOR OPEN: Bidder Complies YES _____ NO _____

The dome lights mounted in the ceiling of the vehicle shall be activated to the high intensity position when the personnel entrance doors are open. The circuit shall be relay controlled and the dome light current shall not be controlled by the door post switch.

EXTERIOR COMPARTMENT LED STRIP LIGHTING: Bidder Complies YES _____ NO _____

All exterior compartments shall be provided with LED adhesive backed strip lights. Each compartment shall have the lights installed on both the left and right vertical side of the compartment. Lights shall be mounted on angled brackets for maximum illumination into the compartment. The compartment lights shall be controlled by an automatic door post switch in each door. The compartment open indication light shall activate anytime any compartment door is opened. The door post switch shall activate the compartment lighting relays. The door post switch shall not carry the current of the compartment lights.

WHELEN LED STRIP-LITE Right Front, In/Out: Bidder Complies YES _____ NO _____

An indirect light located in the Right front In/Out compartment area. The light shall be a Whelen Level 3 intensity LED Strip light. The light will be controlled by the opening and closing of compartment doors.

LSS LED PANEL LIGHT: Bidder Complies YES _____ NO _____

An indirect light located above the Life Support Station counter shall be used to illuminate the action area. The light shall be a Heavy Duty LED panel light and be switched by a switch on the side of the light as well as from the rear switch panel. The rear panel light switch shall also activate the light in the oxygen storage compartment.

12 VOLT TECNIQ LED PATINET PROCEDURE LIGHTS: Bidder Complies YES _____ NO _____

The ceiling of the ambulance shall be equipped with two (2) TecNiq 42 LED light fixtures, mounted in the ceiling wire raceway. The lights shall be located directly over the center position of the stretcher. The lights shall be controlled by a separate relay controlled circuit and switch in the rear switch panel.

STEPWELL LIGHT: Bidder Complies YES _____ NO _____

An independent, recessed LED step well light shall be provided in the rear side of the diamond plate step well and be automatically activated whenever the side entrance door is open. The exterior shall be protected from weather and damage. All connections shall be weatherproof, sealed connectors.

12 VOLT TECNIQ LED LIGHTS: Bidder Complies YES _____ NO _____

Four (4) 17", 42 LED fixtures shall be installed and equally spaced in between the (6) dome lights. The fixtures shall have reinforced housings with a plastic diffuser which locks in place. The lights shall be relay controlled and switched by a lighted single pole switch in the rear Life Support switch panel. All lights shall be mounted to the vehicle ceiling structural members and not to the ceiling panel material alone.

RETANGULAR LIGHT; "CHECK OUT" TIMER: Bidder Complies YES _____ NO _____

A 10 minute push button timer shall be provided at the side door of the vehicle to allow the Rectangular lights to be turned to the on position at all times. This allows the crew to check the module without turning the ignition on.

DUAL DOME LIGHT SWITCHES: Bidder Complies YES _____ NO _____

Per the requirements of KKK-A-1822, two independent dome light circuits with two independent switches shall be provided to control two banks of (3) dome lights each. The switches shall be marked in the Life Support panel as left dome light and right dome light. Each switch shall power the low mode of the fixtures independently.

12 VOLT UTILITY AND MEDICAL OUTLETS

12 VOLT MEDICAL OUTLET: Bidder Complies YES _____ NO _____

One (1) 12 volt Power Point outlet shall be provided. The outlet shall be circuit breaker protected and provide a source directly from the vehicle batteries, and bypass the vehicles master battery disconnect switch. **The outlet shall be located at the Life Support Station.**

12 VOLT MEDICAL OUTLET: Bidder Complies YES _____ NO _____

One (1) 12 volt Power Point outlet shall be provided. The outlet shall be circuit breaker protected and provide a source directly from the vehicle batteries, and bypass the vehicles master battery disconnect switch. **The outlet shall be located in the right front in/out access compartment.**

12 VOLT MEDICAL OUTLET: Bidder Complies YES _____ NO _____

One (1) 12 volt Power Point outlet shall be provided. The outlet shall be circuit breaker protected and provide a source directly from the vehicle batteries, and bypass the vehicles master battery disconnect switch. **The outlet shall be located on the left rear wall of the vehicle.**

ANTENNA AND COMMUNICATION RADIO EQUIPMENT

ANTENNA: Bidder Complies YES _____ NO _____

A Coaxial Antenna lead shall be prewired from a location in the wire raceway to the location of the two-way communication radios.

The antenna lead in the roof shall include a connector soldered to end of cable for install of two-way communication radio antenna.

ANTENNA LEADS: Bidder Complies YES _____ NO _____

Two (2) coaxial cable antenna leads, with base and cap, shall be installed on the cab roof; they shall run from the cab roof to the following location; to be determined.

RADIO POWER LEAD: Bidder Complies YES _____ NO _____

A 10 gauge constant power positive lead and 10 gauge ground shall be provided with 30 amp circuit protection located in the rear Life Support Panel.

RADIO POWER LEADS: Bidder Complies YES _____ NO _____

A 10 gauge constant power positive lead and 10 gauge ground shall be provided with 30 amp circuit protection.

RADIO POWER LEADS: Bidder Complies YES _____ NO _____

An 8 gauge constant power positive lead and 8 gauge ground shall be provided with 40 amp circuit protection.

12 VOLT ELECTRICAL EQUIPMENT

REAR STEREO SPEAKERS: Bidder Complies YES _____ NO _____

Two (2) low-profile, flush mounted, AM-FM Stereo Radio Speakers shall be installed in the ceiling in the forward portion of the vehicle. The speakers shall be spaced with other equipment provided, (1) each side. The speakers shall be connected to the stereo radio within the cab dashboard. A "Volume Control" rheostat shall be provided in the rear switch panel to allow speakers to operate independent of front speakers.

INTELLITEC CLOCK W/SWEEP SECOND HAND: Bidder Complies YES _____ NO _____

An Intellitec digital clock with sweep second hand and elapsed timer shall be installed on the face of the angled 45 degree cabinet above the LSS area. The clock shall be powered by a constant, protected, 12 volt source directly from the batteries.

The clock shall have a 4-digit display to allow for easy viewing when seated in any position in the rear of the ambulance. The clock is 6.75 x 4.75 x 1.25 mounted in a 6" x 5" panel cut out using 4 screws.

KNEELING FEATURE ENABLE SWITCH: Bidder Complies YES _____ NO _____

A switch shall be installed to enable 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 installed street side low by rear doors.

VOICE INTERCOM: Bidder Complies YES _____ NO _____

A High Quality two station intercom system shall be installed in the vehicle. The master station shall be located in the ceiling of the cab accessible to both driver and passenger, include a standby, and talk position. The master station shall include an electrical volume control for monitoring the sub-station. The sub-station shall be flush mounted in the rear switch panel. An on /off switch shall be located in the front console to control power to the intercom.

115 VOLT AC ELECTRICAL: Bidder Complies YES _____ NO _____

The vehicle shall include a 115 volt AC Electrical system separate and distinct from the vehicles 12 volt electrical system.

The entire system shall be designed and tested to meet the requirements of the NFPA National Electrical Code (NEC) where applicable and use the balance of the NEC for general practices and procedures associated with high voltage 115/230 volt AC Electrical wiring and devices. The vehicle shall also meet and be tested to all requirements of AMD standard 009. Test Documentation and verification shall be provided upon request.

115 VOLT ELECTRICAL SCHEMATICS:

Bidder Complies YES_____ NO_____

A complete wiring schematic shall be provided which indicates the systems entire 115 volt Electrical System. The schematic shall be done in the same format as the 12 volt wiring schematics and be provided upon delivery of the vehicle.

115 VOLT WIRING:

Bidder Complies YES_____ NO_____

All wiring shall be three (3) conductors, 10 GA or 12 GA minimum stranded copper cable as required by the circuit requirements. All conductors shall have a 105 degree Celsius rated insulation, with tinned conductors rated at 600 volt. All cable wiring shall be encased in high temperature protective loom where exposed.

KUSSMAUL "SUPER AUTO-EJECT" SHORELINE:

Bidder Complies YES_____ NO_____

A 20 Amp Kussmaul "Super Auto-Eject" Shoreline Male Motor Base Model 091-55-20-120 shall be installed on the left side of the body over compartment "B". The Shoreline shall be waterproof type with spring loaded gasketed cover. The Shoreline shall be wired to the junction circuit breaker box located within the power distribution panel compartment. The Shoreline auto-eject solenoid shall be connected to the starter solenoid of the vehicle and only be activated when the key is in the start mode. The Shoreline shall be equipped with a matching female connector designed for use with the auto-eject shoreline and shipped loose with the vehicle.

SHORELINE POWER / BATTERY CHARGER INDICATOR LIGHTS;

Bidder Complies YES_____ NO_____

Dual operation indicator lights shall be provided to indicate both live power of the shoreline and battery charger "charging". This shall be located at the shoreline input connector. The "Live Power Shoreline" indicator shall be a "rounded" 3/8" LED amber indicator and the "Battery Charger" indicator shall be a "rounded" 3/8" green LED. The 115 volt indicator shall indicate power has reached the interior outlets, not just the shoreline.

115 VOLT POWER DISTRIBUTION BOX:

Bidder Complies YES_____ NO_____

A 115 volt power distribution box shall be installed in the vehicles main electrical cabinet. The distribution box shall consist of an enclosure with a 20 amp magnetic type circuit breaker installed. The circuit breaker shall power duplex receptacles also mounted within the distribution box. All wiring and circuits provided shall be sized for a 20 amp capacity, 12 gauge conductor minimum.

ENGINE BLOCK HEATER:

Bidder Complies YES_____ NO_____

A Block Heater shall be powered by the exterior shoreline power of the vehicle. A 115 volt Electrical conductor encased in high temperature loom shall be routed to the engine compartment and have a quick connect, Female plug on the end to plug into the engine block heater.

ENGINE BLOCK "SHUT-OFF" SWITCH:

Bidder Complies YES_____ NO_____

A 115 volt AC toggle switch, 15 amp rated, shall be located with the area of the electrical compartment to disconnect the engine block heater from the shoreline input feed. The wiring shall be done in accordance with NFPA, NEC applicable codes.

115 VOLT GFCI RECEPTACLE INTERIOR:

Bidder Complies YES_____ NO_____

115 volt AC Duplex Ground Fault Circuit Interrupter receptacle shall be installed in the vehicle for protection of personnel. The GFCI shall be "Lighted" duplex type. The Green light within the outlet shall glow when live power is at the outlet, and extinguish to indicate when the GFCI is tripped. All other outlets within the vehicle shall be wired downstream, and be GFCI protected. The location of the GFCI shall be as follows, one (1) located on the back wall of the Life Support Station.

115 VOLT OUTLET INTERIOR: Bidder Complies YES _____ NO _____

115 volt AC Duplex Electrical outlet shall be installed in the vehicle. The outlets shall be "Lighted" hospital grade duplex type. The Neon light within the outlet shall glow when live power is at the outlet. All outlets within the vehicle shall be GFCI protected. The location of the outlet shall be as follows, one (1) located on the left rear wall of the vehicle.

115 VOLT OUTLET INTERIOR: Bidder Complies YES _____ NO _____

115 volt AC Duplex Electrical outlet shall be installed in the vehicle. The outlets shall be "Lighted" hospital grade duplex type. The Neon light within the outlet shall glow when live power is at the outlet. All outlets within the vehicle shall be GFCI protected. The location of the outlet shall be as follows, one (1) located in the right front compartment.

115 VOLT OUTLETS INTERIOR: Bidder Complies YES _____ NO _____

115 volt AC Duplex Electrical outlet shall be installed in the vehicle. The outlets shall be "Lighted" duplex type. The Neon light within the outlet shall glow when live power is at the outlet. All outlets within the vehicle shall be GFI protected.

INVERTER / CHARGER: Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a [Tripp Lite](#) Inverter / Charger Model EMS1250UL, which will be supplied and installed by the manufacturer.

VEHICLE PAINTING

PAINTING PROCESS: Bidder Complies YES _____ NO _____

The entire modular body shall be prepared and painted using the Akzo Nobel Sikkens Paint System.

REQUIRED PAINT PROCEDURES:

I. Surface Cleaning Bidder Complies YES _____ NO _____

1. The vehicle module will be inspected for excess fuser, weld slag, and caulking. All such contaminants will be removed prior to prepping for paint.
2. The module will be surface cleaned with Sikkens OTO Degreaser utilizing the "2-Towel" method. One towel will be used to apply the product (saturate and scrub the surface area being cleaned), and one towel will be used to physically dry the area. All proper HS&E practices will be followed.
3. The surface cleaner will not be allowed to evaporate by working small areas.
4. Both towels will be replaced as they become dirty.
5. Inspect the module body during the cleaning process for any surface defects of irregularities.
6. The bottom of the module body, the doors, and door openings are to be sealed with a 3M sealant/adhesive to fill all gaps and seams to protect against moisture being trapped, and to help protect against corrosion.

II. Polyester Repairs

Bidder Complies YES _____ NO _____

1. All areas requiring body work shall be ground down with 36 grit and feather edged with 80 grit DA.
2. All areas with body work shall be filled with Evercoat Z-grip body filler.
3. All body work shall be sanded with 80 grit and finished with 180 grit sandpaper.
4. Evercoat Eurosoft glazing putty is applied over any body filler to fill any pin holes and minor waves.
5. The glazing putty is to be finish sanded and feather edged with 180 grit sandpaper prior to paint.
6. Sand/abrade all areas that require the application of LV260 epoxy primer with 180 grit.
7. Thoroughly clean and degrease with Sikkens OTO Surface cleaner.
8. Apply Auto Prep Pre-Treatment Wipes to all bare metal or aluminum surfaces extending slightly into the polyester repaired areas and extending far enough on to the substrate to allow the LV260 epoxy primer to be applied inside the Auto Prep Pre-Treatment Wipe area.
9. All body work is to be primed with LV260 epoxy primer, and final sanded with 320 grit sandpaper.
10. All edges of the module body, doors, and door openings are to be rounded for maximum paint mils.
11. All body work requires a Quality Assurance inspection to check for pin holes, gaps, scratches, and blemishes. All edges are to be rounded, and all sealant is to be sanded before epoxy primer application.

III. Surface Preparation --- Brightener Process

Bidder Complies YES _____ NO _____

1. Fully rinse module with D.I. water.
2. Mix 35 Oz. Brightener to 500 oz D.I. water.
3. Apply Brightener solution from the top of the module working down while scrubbing with a brush to insure complete surface contact and mechanical cleaning.
4. Allow approximately 5 minutes dwell time on the surface.

5. Rinse thoroughly with D.I. water. Water must “sheet” cleanly over the aluminum surface. If required, repeat process.
6. Mix 300 milliliters of Gardobond 4707 to 2 gallons of D.I. water.

IV. Surface Preparation --- Application of Gardobond 4707 Bidder Complies YES _____ NO _____

1. Apply Gardobond solution starting at the top of the module and working down using approved spray equipment while maintaining at least 50 % overlap application process.
2. Allow 5 minute dwell time on the surface.
3. Rinse thoroughly with D.I. water.
4. Blow off excess water with air blower concentrating on recessed areas and seams.
5. Blow off and bake dry in spray booth (140 degrees for 45 minutes), and recheck for residual water.
6. Tack and proceed with painting process.

V. Door Preparation Bidder Complies YES _____ NO _____

1. Follow same procedures as for exterior module body preparation.
2. Inner doors must be coated in designated areas with “cavity wax” after finish process has been completed.

VI. Surface Preparation for Small Repairs Bidder Complies YES _____ NO _____

1. Surface clean substrate utilizing Sikkens OTO surface cleaner as per recommended process.
2. Prepare surface using aluminum P-180 grit DA or 3M0774 Red scuff pads.
3. Final surface clean with Sikkens OTO Surface Cleaner as per recommended process.
4. Apply AutoPrep Pre-Treatment wipes as per recommended process utilizing a “double wipe” method with a 50-75% overlap.
5. Allow one minute dwell time for solution to react with base metal.
6. When completely flashed off, proceed with Sikkens High Build Surfacer Gray.

7. Do not apply any type of polyester products over AutoPrep Pre-Treatment Wipes.

VII. E-Coat Application Process

Bidder Complies YES _____ NO _____

1. Mix LV260 Primer EP at 3:1+10% ratio utilizing the #9 Sikkens measuring stick.
 - a. 3 parts LV260 Sealer
 - b. 1 part LV260 Hardener
 - c. 10% (of the A-component) reducer slow
 - d. Apply one single flowing coat while maintaining a 50 to 75% overlap and a distance of 6 to 8 inches.
2. Adjust fan pattern and atomizing air pressure to minimize texture and overspray.

VII. Undercoat Painting Process-LV 650 Sealer

Bidder Complies YES _____ NO _____

1. Mix Autocoat LV 650 Sealer at 5:1:1 ratio utilizing the #23 Sikkens measuring stick.
 - a. 5 parts LV Sealer
 - b. 1 part LV 650 Hardener
 - c. 1 part LV 650 Reducers
 - d. Apply one single flowing coat while maintaining a 50 to 75% overlap and a distance of 6 to 8 inches.
2. Adjust fan pattern and atomizing air pressure to minimize texture and overspray.
3. Use SATA RP 1.0-1.1 equipment for best results.

IX. Auto Base Plus Color Mixing Process

Bidder Complies YES _____ NO _____

1. Mix Auto Base Plus at 100:5 with LV 650 Hardener utilizing the #14 Sikkens measuring stick. Stir mixture completely.
2. Mix 100 parts of above combination with 80 parts Sikkens HP Reducers.
3. Solvent selection should be slow enough to provide good flow and melt in characteristics.

X. Application of Auto Base Plus Colors

Bidder Complies YES _____ NO _____

1. For solid colors, apply 2 single coats allowing 5 to 7 minutes flash-off between each coat.
2. For metallic colors, apply 2 single coats at approximately 6 inches from the module allowing 5 to 7 minutes flash-off between each coat. Even out the metallic pattern an orientation coat after the second coat has flashed off completely.

XI. Autocoat LV650 Clear Coat Mixing Process

Bidder Complies YES _____ NO _____

1. Mix Autocoat LV650 Clear Coat at a ratio of 5:2:2
 - a. 5 parts LV650 Clear
 - b. 2 parts LV650 Hardener
 - c. 2 parts LV650 Reducer
 - d. Once it is mixed, Autocoat LV650 Clear has a pot life of 1.5 hours at 70 degrees F.

XII. Application of Autocoat LV650 Clear Coat

Bidder Complies YES _____ NO _____

1. Apply three full wet coats allowing a 5 to 10 minute flash off period between each coat.
2. Adjust fan pattern and atomizing air pressure to minimize texture and overspray.
3. Force drying of Autocoat LV650 Clear. Allow 10 to 15 minute flash in booth after application of second coat.
 - a. Bake at 140F for 45 minutes.
 - b. Allow a 10 minute cool down in booth.
 - c. Air dry for approximately 8 hours at 70F prior to any polish or detailing.

XIII. Sikkens System Dry Film Build Requirements

Bidder Complies YES _____ NO _____

1. High Build Surfacer Gray---2.0 to 2.7 mils per coat. (not included in total film build calculation)
2. E Coat---LV260 Primer EP---One coat at 1.0 to 1.5 mils per coat.
3. Primer Sealer---LV650---One coat at 1.0 to 1.4 mils per coat.
4. Base Coat--- Autobase Plus---Two to three coats at 0.3 to 0.4 mils per coat.
5. Clear Coat---LV650 Clear---Three coats at 0.9 to 1.1 mils per coat.
6. Total Dry Film Build System range---5.7 to 7.4 mils.
7. Total Dry Film Build System after detail/polish---4.7 to 6.4 mils.

PAINT CORROSION PROTECTION:

Bidder Complies YES _____ NO _____

All exterior fastener locations that penetrate the paint on the modular body are to be treated with Electrolysis Corrosion Kontrol (ECK). Every external fastener hole shall have ECK brushed into and around the hole for full coverage. The perimeter of the hole shall be covered with a minimum of .5 diameter of ECK. This is to protect the head of the fastener from touching the painted surface. All applications of ECK are to take place before component mounting. The fasteners that are included in this process are for the following components: Lights, Light Bars, Hinges, Diamond plate panels, Entrance and compartment door panels, Fuel fill, license plate holder, Shoreline, Vent Covers, Rain Gutters, Rub Rails, Fenderettes and Door Grabbers. Additional items that are mounted to the painted body will also be included. When an item is cut into the body causing an unpainted edge, the unpainted edge shall be completely coated with ECK prior to component mounting.

TEN YEAR PAINT WARRANTY **Bidder Complies** YES____ NO____

Manufacturer will warranty to original purchaser that the Paint is free from specific paint defects for 10 years from date the vehicle is delivered. Manufacturer will warranty 100% labor & materials for the following defects: coating system integrity, coating adhesion and UV related degradation, gloss retention and color retention, cracking or checking of the paint film, and delaminating from the substrate or intercoat. Manufacturer will warranty materials and labor to repair defects resulting from dissimilar metals and crevice corrosion for a period of 5 years, 60,000 miles from date of delivery.

PAINT ADHESION TESTING: **Bidder Complies** YES____ NO____

The manufacturer shall utilize a customized paint adhesion testing procedure to insure and verify that proper bonding of the coatings to the substrate surface, has taken place. This test is performed on an intentional, sacrificial test surface just prior to the final polish stage. The coatings are cross hatch cut down to the substrate on multiple areas of the test surface. An adhesion tape of Permaceel 99 (or the equivalent) is bonded and then removed to verify the permanent bond of the coatings. Each test surface panel is dated, logged and saved. The performed adhesion test is designed to exceed the ASTM spec D 3359, "Standard Test Method for Measuring Adhesion by Tape Test".

PAINT REAR, SOLID PRIMARY COLOR: **Bidder Complies** YES____ NO____

The rear portion of the body shall be painted the primary single solid color only. Modular Body Paint Color Red

MODULAR BODY PAINT COLOR: **Bidder Complies** YES____ NO____

The entire modular body will be Vermillion Red, to match the color of the cab.

VINYL REFLECTIVE STRIPE IN C-CHANNEL RUB RAILS: **Bidder Complies** YES____ NO____

A 1 -1/2" wide vinyl red reflective stripe shall be installed within the inner cove of the "C" Channel Rub-Rails using the color as specified.

VINYL REFLECTIVE STRIPE ON ENTRANCE DOORS: **Bidder Complies** YES____ NO____

A 3/4" wide vinyl red reflective color stripe shall be installed on the outer perimeter edge, of the inner door pan on all (3) entrance doors.

VINYL REFLECTIVE STRIPE ON ENTRANCE DOORS: **Bidder Complies** YES____ NO____

A 3/4" wide vinyl red reflective color stripe shall be installed on the outer perimeter edge, (inside) of (5) compartment doors.

LETTERING / GRAPHICS / STRIPING **Bidder Complies** YES____ NO____

The vehicle will be delivered with all lettering, graphics, and striping to match the current Rescue 3.

REFLEXITE CHEVRON DESIGN ON INNER LOWER ENTRANCE DOOR PANELS: Bidder Complies YES _____ NO _____

A 3" Reflexite, chevron stripe shall be installed on the inside, brushed aluminum door panels on all Entrance doors. The Chevron color shall be Red/Black.

CHASSIS EQUIPMENT

LIQUID SPRING SUSPENSION SYSTEM: Bidder Complies YES _____ NO _____

A LiquidSpring 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.

FORD POWER TELESCOPE TRAILER TOW MIRRORS: Bidder Complies YES _____ NO _____

Mirrors shall be provided as Ford OEM equipment. These mirrors provide black finish below eye level heads extending from window area. Brackets are designed with breakaway feature. Mirrors include Power Telescope feature, built in convex head, power/heated glass, integrated clearance lights and turn signals and are power adjusting from inside the cab.

RUBBER MUD FLAPS: Bidder Complies YES _____ NO _____

Rubber mud flaps shall be provided behind the rear wheels of the vehicle. They shall be Light Duty Truck type and bolted to the inner fender liners of the modular body, behind the rear tires.

FRONT END CASTER CAMBER ALIGNMENT: Bidder Complies YES _____ NO _____

The Ford Chassis front end shall be checked and adjusted for proper caster camber alignment after the ambulance body is mounted and the vehicle is ready for delivery.

ZICO QUICK RELEASE BOTTLE BRACKETS: Bidder Complies YES _____ NO _____

(2) Zico, Quick Release Strapless "D" Bottle Bracket Model QR-D-2 shall be provided and installed in the recessed stepwell area.

PREP, CLEAN, AND DETAIL VEHICLE: Bidder Complies YES _____ NO _____

The New vehicle shall be cleaned and detailed both inside and out, for final delivery.

FILL FUEL TANK: Bidder Complies YES _____ NO _____

The fuel tank shall be filled at the time of vehicle delivery.

END OF SPECIFICATIONS

**TOWN OF NORTH KINGSTOWN
RESCUE VEHICLE – FIRE DEPARTMENT
BID PROPOSAL**

**To: Town Of North Kingstown
100 Fairway Drive
North Kingstown, RI 02852-5762**

**I, (We) the undersigned, agree to furnish to the Town Of North Kingstown, ONE (1) 2018
Rescue Vehicle according to the specifications:**

Year: _____ **Make:** _____ **Model:** _____

_____ \$ _____
(Price in words) **(Price in figures)**

Warrantee / Guarantee: _____

DELIVERY DATE: _____

TERMS: _____

COMPANY NAME: _____

ADDRESS: _____

SIGNATURE: _____

(Please print name and title)

TELEPHONE #: _____ **DATE:** _____

EMAIL: _____