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One (1)	== Type I Model 146 Medic or Equivalent - 2.143 07/28/17 ==	Y___N___
One (1)	This unit built in accordance with KKK-A1822-F CN 10	Y___N___
03-00-0100		

This unit shall be built to the KKK-1822F specifications including the Change Notice 10 changes dated July 1,2017.

As evidence that the modular ambulance body meets the above criteria, the FSAM's shall furnish a certification that the modular ambulance body meets the testing requirements of SAE J3057.

Installed Oxygen cylinder, suction (action area), and 2- 5lb fire extinguisher (ship loss) mounting devices shall meet the performance requirements of SAE J3043.

1) All interior enclosed stowage devices shall be tested to their rated weight capacity in accordance with the requirements of SAE J3058.
2) Stowage devices shall not come open in transit.
3) Storage for the main oxygen cylinder shall be accessible for replacement from an outside position.
4) The oxygen compartment shall be provided with at least a 9 sq. in. of open vent to dissipate/vent leaking oxygen to the outside of the ambulance.
5) Oxygen cylinder compartment shall not be utilized for storage of any other equipment.
6) All interior enclosed stowage devices shall be labeled with their rated weight capacity.

A complete litter fastener assembly shall be furnished. The installed litter fastener device for wheeled cots shall meet the performance requirements of SAE J3027.

The litter fastener device shall be installed according to the litter fastener manufacturer's instructions. The ambulance floor and substructure shall be tested in accordance with the dynamic requirements of SAE J3102.

The ambulance shall have a piped medical oxygen system capable of storing and supplying the minimum requirements in liters of medical oxygen as specified by the purchaser. The installed medical oxygen piping shall be leak tested to 80 PSI. After the successful completion of piping test, the system shall be completely assembled and the flow rate of the outlets tested with the system pressurized at normal working pressure. The system shall be capped then tagged with date and signature of person and firm performing the tests.

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One (1) 03-37-5201 Conversion, Type I Chevy, Model 146 Medic 17-1 or Equivalent Y___N___

COMPLETED VEHICLE DIMENSIONS

The vehicle described herein shall have the following approximate dimensions:

One (1) 04-20-0600 Conversion, Type I, Headroom, 68" (Standard) Y___N___

Headroom shall be 68"

One (1) 04-20-3710 Conversion, Type I, Body Width, 96" (Standard) Y___N___

Body Width shall be 96"

One (1) 04-20-3900 Conversion, Type I, Body Length, 146" (Standard) Y___N___

Body Length shall be 146"

One (1) 04-70-7510 Conversion, Aisle Space, 47" (Standard) Y___N___

Aisle Space shall be 47"

One (1) 12-20-0124 Rub Rails, Skirt Line, One (1) Set "C-Channel" Style -146 Module Y___N___

RUB RAILS - SKIRT

Skirt rub rails will be installed to protect the lower body and will extend the entire length of the body on the curb and street sides, exclusive of the wheel well area. They shall be made from custom 'C' channel that is cut at 45 degree angles on the ends. The rub rail shall be bolted to the lower side wall panel with ¼" nylon spacers.

One (1) 05-25-5510 Chassis, 2017 Chevy C3500, 4x2, 161.5" WB, Diesel 17-1 or Equivalent Y___N___

CHASSIS REQUIREMENTS

The chassis listed below has been determined to best meet the needs of this agency. Bidders may offer an alternate chassis bid, but may **not** do so exclusive of the following specification:

2017/2018 Chevy C3500 - 4x2 Diesel or Equivalent
162" Wheelbase

CC36403 – Chevrolet Silverado 3500HD 2WD Reg Cab 162" WB or Equivalent
83.58" Cab to Axle
9E5 – 13,200# GVWR
Front GAWR – 5600#
Rear GAWR – 9750#

Somerset-Pulaski County

CATEGORY Code	Description
EMISSIONS	
FE9	EMISSIONS, FEDERAL REQUIREMENTS
ENGINE	
LML	ENGINE, DURAMAX 6.6L TURBO DIESEL V8 B20-Diesel compatible (397 hp [296.0 kW] @ 3000 rpm, 765 lb-ft of torque [1032.8 N-m] @ 1600rpm) (Included with (PCZ) Ambulance / Fire / Rescue Package.
Requires	(MW7) Allison 1000 6-speed automatic transmission, (GT4) 3.73 rear axle ratio and (K05) engine block heater. Includes (K40) exhaust brake.) or Equivalent
TRANSMISSION	
MW7	TRANSMISSION, ALLISON 1000 6-SPEED AUTOMATIC electronically controlled with overdrive, electronic engine grade braking and tow/haul mode (Included with (PCZ) Ambulance / Fire / Rescue Package. Requires (LML) Duramax 6.6L Turbo Diesel V8 engine.)
AXLE	
GT4	REAR AXLE, 3.73 RATIO (Standard with (LML) Duramax 6.6L Turbo Diesel V8 engine. Available with (L96) Vortec 6.0L V8 SFI engine.)
GTY	REAR AXLE, WIDE-TRACK (Included with (PCZ) Ambulance / Fire / Rescue Package.) or Equivalent
PREFERRED EQUIPMENT GROUP	
1LT	1LT PREFERRED EQUIPMENT GROUP includes Standard Equipment
TIRES	
QQO	TIRES, LT235/80R17E ALL-SEASON HIGHWAY (STD)
SPARE TIRE	
ZQO	TIRE, SPARE LT235/80R17E HIGHWAY (Requires (QQO) LT235/80R17E all-season highway tires.)
PAINT SCHEME	
ZY1	PAINT, SOLID (STD)
PAINT	
GAZ	SUMMIT WHITE
SEAT TYPE	

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AZ3	SEATS, FRONT 40/20/40 SPLIT-BENCH 3-passenger. Available in cloth. Includes driver and front passenger recline with outboard head restraints and center fold-down armrest with storage. Also includes manually adjustable driver lumbar, lockable storage compartment in seat cushion, and storage pockets. (STD)
SEAT TRIM	
H0U	JET BLACK, CLOTH
RADIO	
IO5	CHEVROLET MYLINK AUDIO SYSTEM, 8" DIAGONAL COLOR SCREEN WITH AM/FM STEREO USB ports, auxiliary jack, SD card slot, Bluetooth streaming audio for music and most phones, hands-free smartphone integration, Pandora Internet radio and voice-activated technology for radio and phone (STD)

ADDITIONAL EQUIPMENT

PCZ	AMBULANCE / FIRE / RESCUE PACKAGE vehicle must meet the definition of a dedicated Emergency Vehicle, Ambulance or Fire Truck per 40 CFR Parts 85, 86, and 1039: Heavy-Duty Highway Program: Provides (ANM) Emissions Revisions for Emergency Vehicles. Incomplete vehicle chassis requires further manufacture and certification by a final stage manufacturer. Includes (BG9) graphite-colored rubberized-vinyl floor covering, (GTY) wide track rear axle, (LML) Duramax 6.6L Turbo Diesel V8 engine and (MW7) Allison 1000 6-speed automatic transmission. (Requires a Fleet or Government sales order type.) or Equivalent
K05	ENGINE BLOCK HEATER (Included with (LML) Duramax 6.6L Turbo Diesel V8 engine.)
PTO	POWER TAKE OFF, ENGINE CONTROL PROVISIONS (Included and only available with (MW7) Allison 1000 6-speed automatic transmission and (LML) Duramax 6.6L Turbo Diesel V8 engine. For details of PTO operation please see www.gmupfitter.com and reference info bulletin UI #79.)

___ BATTERY, HEAVY-DUTY DUAL 730 COLD-CRANKING AMPS/70 AMPHR, MAINTENANCE-FREE with rundown protection and retained accessory power (Included and only available with (LML) Duramax 6.6L Turbo Diesel V8 engine.)

KHB ALTERNATOR, DUAL, 150 AMPS and 220 AMPS EACH (Requires (LML) Duramax 6.6L Turbo Diesel V8 engine. Included with (VYU) Snow Plow Prep Package when ordered with (LML) Duramax 6.6L Turbo Diesel V8 engine.)

N2L FUEL TANK, REAR, 40 GALLON (Requires (LML) Duramax 6.6L Turbo Diesel V8 engine.)

K40 EXHAUST BRAKE (Included and only available with (LML) Duramax 6.6L Turbo Diesel V8 engine.)

SKP WHEEL, 17" X 6.5" (43.2 CM X 16.5 CM) FULL-SIZE, STEEL SPARE INC INC

VK3 LICENSE PLATE KIT, FRONT (will be shipped to orders with ship-to states that require front license plate)

U2J SIRIUSXM SATELLITE RADIO, DELETE (Included and only available with (PCU) Base Package.)

BG9 FLOOR COVERING, GRAPHITE-COLORED RUBBERIZED-VINYL (Included with (PTO) Power Take Off, engine control provisions.)

STANDARD EQUIPMENT

ENTERTAINMENT

• Chevrolet MyLink audio system, 8" Diagonal color screen with AM/FM stereo USB ports, auxiliary jack, SD card slot, Bluetooth streaming audio for music and most phones, hands-free smartphone integration, Voice-activated technology for radio and phone
• 6-speaker audio system
• Bluetooth for phone, personal cell phone connectivity to vehicle audio system or Equivalent

EXTERIOR

• Wheels, 17" (43.2 cm) painted steel
• Tires, LT235/80R17E all-season highway
• Wheel trim, Chrome trim skins and chrome center caps
• Bumper, front chrome
• Grille, chrome surround
• Headlamps, halogen projector
• Lamps, Smoked Amber roof marker
• Lamps, cargo area, cab mounted with switch on center switch bank

• Mirrors, outside heated power-adjustable vertical camper Includes integrated turn signal indicators consisting of 51 square inch flat mirror surface positioned over a 24.5 square inch convex mirror surface with a common head and lower convex spotter glass (convex glass is not heated and not power adjustable)
• Glass, deep-tinted
• Door handles, Black

INTERIOR

• Seats, front 40/20/40 split-bench 3-passenger. Available in cloth. Includes driver and front passenger recline with outboard head restraints and center fold-down armrest with storage. Also includes manually adjustable driver lumbar, lockable storage compartment in seat cushion, and storage pockets.
• Single-slot CD/MP3 player
• Seat trim, Cloth
• Floor covering, GRAPHITE-COLORED RUBBERIZED-VINYL
• Steering column, manual Tilt-Wheel
• Steering wheel, leather-wrapped with audio and cruise controls
• Steering wheel audio controls
• Instrumentation 6-gauge cluster featuring speedometer, fuel level, engine temperature, tachometer, voltage and oil pressure
• Driver Information Center 4.2-inch diagonal color display, includes driver personalization, warning messages and vehicle information
• Windows, power with driver express up and down and express down on all other windows
• Door locks, power
• Remote Keyless Entry
• Cruise control, steering wheel-mounted
• Air conditioning, single-zone
• Mirror, inside rearview auto-dimming
• Visors, driver and front passenger illuminated vanity mirrors
• Assist handle, front passenger and driver on A-pillars

One (1) 06-00-0110 — OEM Supplied - Jack w/handle — Y___N___

One (1) 06-00-0120 — OEM Supplied - Lug Wrench — Y___N___

One (1) 06-00-0411 — Running Boards, One (1) Pair NFPA-DP (Type I) Chevrolet or Equivalent — Y___N___

RUNNING BOARDS

NFPA grade aluminum diamond plate (.1875" thick) running boards shall be fabricated and installed under the cab as indicated in the attached drawings. The running boards must incorporate a pair of splash guards behind the front wheel wells to further protect the cab.

One (1) 06-60-0200 — Rubberized Vinyl Cab Flooring STD — Y___N___

CAB FLOORING

The chassis shall have rubberized vinyl flooring to aid in cleaning and long term wear.

One (1) 06-70-0100 Spare Tire, Shipped Loose Y___N___

SPARE TIRE

One (1) spare tire shall be provided and shipped loose.

One (1) 06-70-4920 Wheel Sims - Phoenix 17", Set of Four (4) Chev Y___N___

WHEEL SIMULATORS

A set of four (4) Phoenix DOT Liner polished stainless steel wheel sims shall be provided and installed on the chassis wheels. Types that require loosening or removal of the OEM lug nuts for installation will not be acceptable.

REAR TIRE AIR FILL EXTENSIONS

A set of four (4) Phoenix "Air Max" series valve stem extensions shall be installed on the dual rear tires of this ambulance per the manufacturer's instructions.

One (1) 31-10-0115 Idle Control, Electronic Throttle or Equivalent Y___N___

IDLE CONTROL

A chassis idle control system Intermotive CVC501A shall be utilized to operate while this ambulance is parked "on-scene" to maintain an adequate DC electrical supply.

One (1) 32-12-0100 No Block Heater Switch Required Y___N___

One (1) 37-15-0820 Warn. Light, Grille, Pass. Side, Whel 500 LED Warn. Chevy G Y___N___

CAB / CHASSIS EXTERIOR LIGHTING

WARNING LIGHTS - GRILLE

Two (2) Whelen TIR6 series Super L.E.D. lights shall be mounted in, or near, the chassis grille in Whelen flanges.
The lens colors (from passenger side to driver's side) will be: Red / Red

One (1) 37-25-0820 Warn. Light, Grille, Driver Side, Whel 500 LED Warn. Chevy Y___N___

One (1) 37-35-0310 Warn. Light, Inters., Pass Side, Whel 3x7 LED Warn. w/f Y___N___

WARNING LIGHTS - INTERSECTION

Two (2) Whelen 700 series Super L.E.D. warning lights shall be installed, one (1) on each chassis fender. The lights are to be located approximately as shown on the attached drawings.
The lens colors (from passenger side to driver's side) will be: Red / Red

FLANGES

Two (2) Whelen chrome plated flange(s) shall be provided and installed on the specified 3x7 Series lights as indicated in the attached drawings.

One (1) 55-18-0118 Siren Speakers, Cast SAD/SAP 3811 in bumper, Chevy C/K 3500 w/ Manufacture Logo Y___N___

SIREN SPEAKERS

One (1) pair of Cast Product siren speakers with Ambulance Manufacturer's nameplate attached to the front of the speaker shall be installed in the front bumper outer edges per the instructions provided by its manufacturer. Each speaker shall be rated for not less than 100 watts.

One (1) 57-10-0125 Heat/AC, C1, Hoseline, Combo, w/Bottom Mount Ext Cond Y___N___

HEATING AND AIR CONDITIONING

Heating and air conditioning for the patient compartment will be provided by a combination heat/ac unit mounted within the interior cabinetry as indicated in the attached drawings.

The heater portion will have a BTUH capacity of 35,000, the air conditioner will have a BTUH capacity of 32,000. A three-speed blower fan capable of 650 CFM on the highest setting will be included.

To reduce the potential for condensate leakage, dual 3/8” ID drain hoses shall be installed on the AC drain pan. The drain hoses shall terminate below and outside the ambulance body.

The combo system shall be provided with an electrically controlled water shutoff valve which shall close to stop the flow of hot water to the heater whenever the air conditioning is operating.
An external condenser shall be mounted under the module. The condenser shall be a Hoseline BMC1006. The condenser shall have dual 12" fans and provide 2564 CFM and 45,000 BTU's.

One (1) 57-00-0500 Heat / AC Bottom Mounted Condenser Bracket Kit -T1 Y___N___

AUXILIARY HEAT/AIR CONDITIONING

An auxiliary skirt mounted air conditioning condensor with dual 12V fans shall be installed under the ambulance body, near the side entry, and connected to the ambulance AC system.

One (1) 57-20-0101 Thermostat, Hoseline (Standard) Y___N___

THERMOSTAT

A rotary adjustment snap-style low voltage heating and air conditioning thermostat shall be provided to control the specified environmental systems. The thermostat shall be installed in the action area as indicated in the attached prints.

One (1) 57-12-0140 Heat / AC System Installed Above ALS Cabinet Y___N___

One (1) 57-18-0100 Booster Pump - 12V Y___N___

A 12 volt pump shall be provided and installed in the water supply line to the heater in order to improve heat output at idle speed.

One (1) 69-06-0511 Console, Cab, Chevy Type 1, Wood Y___N___

DRIVER'S CONTROL CONSOLE

The driver's control console shall be constructed of 1/2" plywood, covered with Gray non-padded vinyl to compliment the cab interior, and located so as not to interfere with any OEM dash features such as radio/climate controls, etc. The top face must be 1/4" black Kydex or ABS material and be hinged to allow easy access to electrical components within the console. All corners must be free of sharp edges and the console must be fastened to the cab floor in a manner so as to allow for quick and easy removal for access to components below.

In addition to the driver's switch panel, this console shall house ammeter, voltmeter, and engine hour meters. It shall also house an electronic siren as well as allowing room for the subsequent mounting of this agency's mobile radio(s).

One (1) 06-50-1999 Front End Alignment, None- QC Check -Standard Y___N___

CHASSIS FRONT END ALIGNMENT

The alignment of the unit shall be chFluid Filmed at the factory during the Quality Control Process. The unit shall only be sent for a front end alignment if it is determined necessary by the Quality Control procedures.

One (1) 08-00-0101 General Body Construction (Standard) Y___N___

GENERAL BODY CONSTRUCTION

Because of a concern regarding single point responsibility for the major components of this ambulance, the body shall be built directly by the prime contractor in the same or adjacent facilities in which the remainder of the conversion is completed. Bids that offer "third party" or sub-contractor built bodies, including leases, rentals, sub-corporations, etc., will not be acceptable.

The module body for this vehicle shall be constructed utilizing aluminum alloy materials consistent with the load and service requirements of an ambulance. Structural members and skin shall be attached by MIG welding along the edges and VHB tape along the flat side of the body to prevent oil canning. Rivets, screws, bolts, tape or other fastening devices will not be allowed as the primary method of attachment.

Structural members, i.e. tubes, corner extrusions, etc., are to be 6063-T1 and 6063-T6 aluminum. Sheet aluminum used for walls, doors, roof, etc., are to be of 5052-H32 aluminum. Sample sections of all structural extrusions shall be made available for inspection by representatives of this agency on or before the bid opening.

The dimensions shown in the attached drawings are the minimum acceptable. ALL EXCEPTIONS TO, OR DIFFERENCES IN, BODY DIMENSIONS MUST BE NOTED IN THE BIDDER'S PROPOSAL.

One (1) Roof Construction, 2X2 Extrusions (Standard) Y___N___
08-10-0101

ROOF CONSTRUCTION

The roof shall be a single .090" sheet of 5052-H32 alloy aluminum. The roof sheet shall be completely welded to the extruded roof assembly. The use of multi-section roofs shall not be acceptable due to the possibility of cracks causing environmental intrusion.

The roof substructure assembly shall consist of four perimeter roof rail extrusions, lateral roof bows and interconnecting corner caps. The roof rail extrusions shall be engineered and designed by the primary manufacturer and shall be double hollow of 6063-T6 .125 aluminum. An integrated roof recess shall be incorporated to create a smooth transition from the one piece roof sheet to the perimeter drip rail. The perimeter drip rail shall be extruded as a design feature of the roof rail extrusion. The roof rail extrusion shall overlay the side skin by one half inch. The roof sheet shall be seam welded to the perimeter roof extrusion. The lateral roof bows shall be two inch by two inch by .125 square extrusions of 6061-T6 alloy aluminum. The structural members shall be located to support the roof skin on fourteen (14") inches between roof bow centers. The roof bows shall interconnect with the roof rails and be continuously welded at all contact points. The finished roof shall incorporate a machine rolled crown of not less than one and half inches in height to provide additional strength and allow water run-off.

The corner caps shall be designed to interlock with the roof perimeter, vertical corner extrusions and roof sheet. The corner caps shall be cast aluminum made from matched metal dies to insure a smooth and pleasing appearance. The caps shall act as a stress relief device to absorb energy and disperse the force along the roof extrusions in the event of a collision. The visible welds will be ground and finished to provide a smooth, seamless appearance.

The use of these corner caps is essential to the overall integrity of modular body structural system. Designs which involve welding the corner and roof edge extrusions together without the use of this feature, or roof corners manufactured from separate extrusions will NOT be acceptable to this agency. In no case, shall the corner caps be weakened by the addition of corner cap lights.

One (1) Wall Construction, 1x2 Extrusions (Type I C/K) Y___N___
08-20-0142

WALL CONSTRUCTION

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

The side assemblies shall be reinforced utilizing 6061-T6 alloy aluminum one by two box tubing and shall be a minimum of .125 in thickness. The side structures shall frame a perimeter around all door openings. Vertical tubes shall be spaced twelve (12") inches on center from each other. Intermediate skin stiffeners shall be located vertically to preclude skin deformation. Additional gusset plates shall be .250 inch aluminum and shall be welded at all contact points between the corner assembly and the roof perimeter.

The front, sides, and rear of the modular shall be configured from a single sheet of .090 aluminum. The one piece sheets shall be used to maximize integrity against dust, toxic fumes, cracking, and moisture penetration. The openings for doors, warning lights and exterior compartments shall be cut on the horizontal plane with a computer controlled plasma cutter for accuracy and integrity of temper. The roof and side skins shall be installed utilizing perimeter welding and a very high bond adhesive to allow absorption of vibration and to eliminate "panning" and strategically placed welds to give the sidewalls the highest strength possible.

One (1) Pass-Thru, Type I, w/ Sliding Plexi Window Y___N___

08-30-0110

CAB TO PATIENT COMPARTMENT PASS-THRU

A 13-3/4” wide x 11-3/8” high pass-through opening with a sliding plexiglas window shall be framed into the front wall. It shall have a head bumper for occupant safety and shall coincide with an opening of equal size framed into the back wall of the chassis-cab. The space between the cab and module shall be sealed by the installation of a flexible rubber “accordion” style enclosure. Inflatable or rigid seals shall not be acceptable.

One (1) Floor Construction, Wood Sub Floor (Standard) Y___N___

08-50-0111

FLOOR CONSTRUCTION

The floor shall be at lowest level permitted by clearances, but not more than thirty three inches from the ground. The floor structure shall consist of two by two by .125 structural box section with 6061-T6 alloy aluminum. The floor structure shall be welded with eight inches of weld at every joint. The openings created for the placement of exterior compartments shall have six inches of weld to insure a smooth surface to fit the compartment in the structure. Tapping plates of one half inch of 6061-T6 aluminum shall be completely welded both sides to the floor assembly. The finished floor assembly shall be securely welded to the wall structures with eight inches of weld and skipped welded every four inches to the exterior compartments. All critical load points shall be reinforced with one quarter inch by three inch by four inch gusset plates. Above the floor channels there shall be an aluminum moisture shield .050 inches thick. The entire underside of the modular shall be sealed with a waterproof sealant. All hollow structural shapes or cavities shall be sealed utilizing expandable foam.

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

Over the aluminum sub-floor, 3/4" thick, seven (7) ply exterior grade plywood shall be secured, using one quarter inch UNF machine by two and one half inch screws driven through the wood and the aluminum structural members below. The plywood shall be marine resin coated prior to installation to prevent warping due to ambient moisture absorption. The plywood floor shall be one piece from the bulkhead to the rear doors between the patient door steeple and squad bench and extend under the street side cabinets. The floor shall be flat and all depressions and screw head penetrations must be filled with an elastic floor fill compound suitable for such applications. The entire floor shall then be sanded smooth prior to laying the finished flooring material.

One (1) Body-to-Chassis Mounting, Type I (Standard) Y___N___

08-60-0101

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BODY TO CHASSIS MOUNTING

The mounting system shall not cause any chassis frame deformation. There shall be ten mounting points, five on each frame rail. The modular body shall have full perimeter welded sill rails of one half inch by two and a half inch of 6061-T6 alloy aluminum. The modular body shall be welded to the sill plates at every exposed seam. At all outrigger mounting locations a double compression, neoprene rubber isolator mounts shall be used to minimize chassis vibration transfer to the modular body. At all four corners of the body between the floor structure shall be a one half by six inch structural plate that shall be bolted to the sill plate with a 1/2 inch grade eight bolt. The modular body and sill plates shall be attached to the frame rails using three quarter inch grade eight bolts. Any method contrary to QVM which may void the chassis warranty shall not be accepted.

One (1) No Drop Drop Skirt Y___N___
08-70-0010 10

One (1) Side Entry Stepwell, Type I, ADP (Standard) Y___N___
14-60-0120

SIDE ENTRY STEPWELL

Inside the side entry door, a step well shall be constructed using bright aluminum diamond plate. The approximate size shall be 30.75" wide with a 15" tread and 9.5" riser. All seams must be welded, sealed and shall have sound deadening material applied to the underside.

One (1) Insulation, Walls and Ceiling, R11 Fiberglass Batt (Standard) Y___N___
10-10-0100

BODY INSULATION

The module walls and ceiling shall be insulated with 2 1/4" thick, R-11 (expanded) fiberglass batt insulation. Applications using thickness greater than this shall NOT be acceptable because it will increase compression density and results in less insulating value overall. Plank foam insulation (1-7/8" thick) shall be installed in the exterior compartment doors. This insulation shall not interfere with the workings of the door latching hardware.

One (1) Insulation, Entry Doors, 1.875" Plank Foam Y___N___
10-10-0400

ENTRY DOOR INSULATION

Module entry doors shall be insulated with 1 7/8" expanded polystyrene plank foam. The insulation shall be cut so as not to interfere with door latching mechanisms and must be glued in place to prevent settling.

One (1) Spray Foam wheel well area and spray AudioGuard on wheel well liner Y___N___
10-10-0930

MODULE SOUND INSULATION

Sound absorbing material made from polyurethane (synthetic or natural fibers) acoustical foam.

One (1) 12-05-0100 Drip Rail Trim Mouldings Over Door Openings (Standard) Y___N___

DRIP RAIL MOULDING

Above each entry and compartment door (excluding doors within 6" of the roof drip rail), an extruded anodized bright finish aluminum drip rail shall be fastened to the body with Acrylic structural adhesive tape. These drip rails must be finished to eliminate rough or sharp edges.

Two (2) 12-10-0100 Stone Guards, ADP, Front Wall, 16" high, Type 1 Y___N___

STONE GUARDS

A full width aluminum diamond plate stone chip guard will be mechanically fastened to the lower front wall of the ambulance to protect the paint finish from damage.

One (1) 12-30-0120 Fenderettes, One (1) Pair Polished Aluminum Y___N___

FENDER FLARES

A polished aluminum fender flair shall be installed around the rear wheelwell openings. They will be installed so as not to interfere with tire rotation, movement, or replacement. A rubber gasket shall be applied between the fender flares and the body panels for corrosion protection.

One (1) 12-35-0100 Fuel & DEF Fluid Fill Bezel, Cast Aluminum (Standard), Type 1 Y___N___

FUEL & DEF FLUID FILL BEZEL

The fuel tank fill will be protected by a cast aluminum fuel fill guard with polished flanges.

One (1) 12-35-0220 Fuel Fill & DEF Fluid Splash Guard, Brushed Stainless Steel Y___N___

FUEL & DEF FLUID FILL SPLASH GUARD

A brushed stainless steel fuel fill splash guard shall be provided and installed below the fuel fill opening to protect the body from fuel overflow or drips. The plate shall be fastened to the body using two-sided Acrylic tape and Butyl rubber sealant. Screws are not to be used for attaching this plate to the body.

One (1) Rear Bumper , F1/C1, ADP Bumper pods, Flip-Up step Y___N___

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12-40-0110

REAR BUMPER

The rear bumper sub-structure must be constructed from formed 1/4" steel plate. The framework shall be bolted to the chassis frame. The outboard pods shall be covered with .100” diamond-plate and the center section shall incorporate a flip-up step of grated material. The outer corners of the aluminum diamond plate pods shall have a smooth rounded corner.

One (1) Rear Riser, ADP (Standard) Y___N___

12-45-0100

REAR RISER PANEL

Extending from the rear step to the bottom of the rear doors, for the full width of the rear wall, shall be a section of aluminum diamond plate. It will be mechanically fastened to the body.

One (1) License Plate Bracket, Recessed (Standard) Y___N___

12-50-0100

LICENSE PLATE HOLDER

A cast aluminum license plate bracket with polished flanges shall be recessed into the rear riser. It shall be provided with one (1) LED license plate light.

One (1) Mudflaps, Rear, One (1) Pair Rubber, w/Logo Y___N___

12-55-0610

REAR MUD FLAPS

One (1) pair of black rubber, anti-spray mudflaps shall be provided and installed behind the rear tires. They shall be attached with non-rusting bracketry so as to allow easy replacement when necessary.

One (1) Exterior Storage Compartments - General (Standard) Y___N___

14-10-0101

EXTERIOR STORAGE COMPARTMENTS

The exterior compartments shall be constructed of aluminum and shall be formed by a computer controlled brake and shear to decrease the amount of welding to fully enclose the compartment. The compartment therefore, shall be water tight. The compartment shall be welded in place to the side and floor structure with an additional bracket welded to a bracket connecting the exterior wall two with the floor structure. The compartment floor shall be supported from beneath with one by two by .125 6061 T-6 rectangular tubing welded to the underside and the floor structure. All exterior compartments shall be vented above the floor line (except the Oxygen and Battery compartments) with machine stamp louvers. The exterior compartment shall be lockable with one key fitting all doors. The compartments shall be equipped with handle and door locks. Each exterior compartment shall

be provided with a sealed light to be illuminated upon the door opening. The light shall be activated by a magnetic switch. A door open indicator light shall be visible on the driver's console. The compartment configuration shall be as described.

One (1) 14-15-1130 Streetside-Front Compartment (#1), Smooth Alum, Sweep-out ILOS Y___N___

STREETSIDE-FRONT EXTERIOR STORAGE COMPARTMENT (#1)

The streetside-front exterior storage compartment shall be constructed using .090" smooth aluminum and shall be sized according to the attached drawings. The floor of this compartment will be of a sweep-out design to aid in cleaning.

One (1) 14-20-1155 Streetside #2 Compartment, Smooth Alum., 3" Dished Floor ILOS Y___N___

STREETSIDE #2 EXTERIOR STORAGE COMPARTMENT

The streetside #2 exterior storage compartment shall be constructed using .090" smooth aluminum and shall be sized according to the attached drawings. The floor of this compartment will be dished approximately 3" to increase vertical storage capabilities.

One (1) 69-36-0020 CPR Seat w/ Fixed Backrest and Hinged Seat (STD) Y___N___

CPR SEAT

A 26" wide CPR seat shall be provided in the streetside cabinet wall, above the wheel well, between the Action Area and the monitor/defibrillator shelf areas. It shall feature a fixed backrest, padded vinyl seat, back, and head rest cushions and shall have a flip-up seat base with storage provisions beneath.

One (1) 69-38-0200 "U" Barrier Bar, Padded, 6 7/8 x 7 1/2, 1.5 inch SS, CPR Seat Y___N___

CPR SEAT BARRIER BAR

A 7 1/2" high x 6 7/8" wide "U" shaped 1.5" stainless steel barrier bar shall be installed even with the upper head strike area forward of the CPR side seat. This bar shall be fitted with a padded upholstery cover to match the units interior. The padding for the bar will be 1" block foam on each side of a PVC cover shaped to fit over the bar.

Bidder Complies YES_____ NO_____

One (1) 14-35-1155 Streetside-Rear Compartment (#4), Smooth Alum. 3" Dished Floor ILOS Y___N___

STREETSIDE-REAR EXTERIOR STORAGE COMPARTMENT (#4)

The streetside-rear exterior storage compartment shall be constructed using .090" smooth aluminum and shall be sized according to the attached drawings. The floor of this compartment will be dished approximately 3" to increase its vertical storage capabilities.

One (1) 14-45-1185 Curbside-Rear Compartment (#5), Smooth Alum. 3" Dished Floor ILOS Y___N___

CURBSIDE-REAR EXTERIOR STORAGE COMPARTMENT (#5)

There shall be a compartment immediately aft of the curbside wheel well area - sized as indicated in the attached drawings. This compartment shall be fabricated of .090" smooth aluminum. The floor of this compartment will be dished approximately 3".

One (1) 14-50-1155 Curbside Intermediate Compartment (#6), Smooth Alum., 3" Dished Floor ILOS Y___N___

CURBSIDE INTERMEDIATE COMPARTMENT (#6)

There shall be a compartment immediately aft of the curbside wheel well area - sized as indicated in the attached drawings. This compartment shall be fabricated of .090" smooth aluminum. The floor of this compartment will be dished approximately 3".

One (1) 14-65-0300 ALS Compartment Door (#8) Y___N___

ALS CABINET EXTERIOR ACCESS DOOR

The ALS cabinet shall be accessable from the exterior of the ambulance via a door located on the curbside wall, just forward of the side entry door. The size of this door shall be as indicated in the attached drawings.

One (1) 14-70-0310 Compartment, Curbside (#9) Y___N___

CURBSIDE COMPARTMENT (#9)

A storage compartment made of smooth aluminum shall be located on the curbside of the ambulance, forward of the side entry door as indicated in the attached drawings. The floor of the compartment shall be sweep-out design and the door shall be right side hinged with a single Nader pin and rotary latch.

Six (6) 15-10-0105 Protective Coating (Scorpion) for Compartments, Standard Y___N___

BEDLINER SPRAY COATING FOR COMPARTMENTS

The following compartment(s) shall receive Scorpion (or equal) spray-on bedliner coating. The coating shall be not less than 2 mils thick and the color shall be gray:

Somerset-Pulaski County

1. All Compartment

One (1) 15-10-0420 Vertical Divider, Fixed, Smooth Aluminum in SS#1 Compartment Y___N___

VERTICAL DIVIDER

One (1) full height, fixed, 125" smooth aluminum divider shall be provided in the SS1 compartment to separate the backboard storage area from the oxygen cylinder storage area. This divider shall be attached to the back, top and floor of the compartment and the outer edge shall be finished with 1/2" diameter aluminum bar stock. It will also have a DA finish on both sides.

One (1) 15-10-1012 Aluminum Adjustable Shelf in SS#2 (Standard) Y___N___

ADJUSTABLE SHELF

One (1) adjustable shelf shall be provided in compartment SS2. It will be formed from .125 aluminum and shall be full depth with a 1" high lip up on the forward side and a 1" downward lip back sides. The top edges of the shelf will be finish sanded to provide a smooth, rounded surface. A vinyl edge guard shall be placed over the outboard edge to prevent damage to the shelf and equipment during removal/replacement. The shelf shall be supported by (4) ninety degree cast angles that are bolted to Uni-Strut adjustable track on the sides of the compartment walls.

One (1) 15-10-1210 Compartment Adjustable Shelf Tracks, Unistrut Y___N___

ADJUSTABLE SHELF TRACK

Four (4) Uni-strut brand aluminum adjustable shelf tracks are to be installed in each compartment, two (2) each side, requiring an adjustable shelf or tray. Each track shall feature a continuous adjustment slot and two (2) short spring channel nuts designed to accept 1/4-20 bolts.

A 1.75” x 1.75” gusseted angle shall to used to support the shelf and fastened to each adjustable track using two (2) 1/4-20 hex head bolts per bracket. Loosening the nuts on these bolts will allow the shelf or tray to be easily adjusted. When tightened, the bolts shall secure the shelf or tray and prevent movement or "shake-down".

One (1) 15-10-1800 Dri Deck Tiles on Compartment Shelves & Floors Y___N___

PLASTIC TILES

Dri-Dek soft PVC plastic interlocking tiles shall be provided and installed on the floor of all compartments, shelves and trays.

One (1) 15-10-1830 Plastic Tile Color - Black (STD) Y___N___

The color of the tiles shall be black

One (1) 16-10-0111 Door Construction (Standard) w/Hidden Jambs Y___N___

EXTRUDED DOOR CONSTRUCTION

The outer face of the door and door edges shall be formed from one sheet of 5052-H32 aluminum. The door shall be flush with the body side. The outer skin shall be 0.125 inches thick and shall be welded every six (6") inches to the inner door frame using a minimum of one and one-half inch (1-1/2") long bead. All corners shall be welded a minimum of two inches (2") in each direction. The edge of the door shall be seamless.

The door frame shall meet with the exterior skin with a smooth seamless transition. There shall be no seams or crevices on the door or the door frame which allows the possibility of corrosion.

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

All doors shall be attached using minimum 1/4-20 stainless steel hex bolt with stainless steel piano hinges with a pin of at least 0.250 inch in diameter. The hinge must be slotted to provide field adjustments. A corrosion inhibitor shall be applied to the door frame and jamb bolt holes prior to installing the hinge.

All compartment doors shall be constructed the same as the entry doors. To ensure continued door alignment and successful latching capabilities, all access doors must be encased by a door jamb that is separate from the body skin and welded to the 2" x 2" tubular body frame members. The door jamb shall be a 0.125"/0.380" thick 6063-T6 aluminum extrusion.

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

The three (3) patient compartment entry doors shall be fitted with Tri-Mark, flush fit, "paddle latch" hardware on the interior and exterior. The patient compartment doors shall be provided with a keyed lock and the rear doors and side door shall be lockable from the inside without a key per FMVSS.

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

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

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

The compartment and entry door shall be painted separately from the modular body. The doors shall then be installed on the painted module. A corrosion inhibitor shall be applied to the door frame and jamb painted extrusion prior to installing the doors to provi-de a barrier between the hinge and the paint.

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

The side entry door will have pressurized gas strut overhead door chFluid Films which will hold the doors at not less than 90 degrees when open. The gas struts will include an "over-chFluid Film" feature to prevent failure due to the door leaf being moved past 90 degrees.

COMPARTMENT DOORS

The inside of each compartment door will be finished with .063" bright aluminum diamond plate liner, bolted to the door extrusion flanges with machine screws that thread into automotive style spring clips that are fastened to the door extrusions to hold the skins securely to the door frame.

ENTRY DOORS

Inner door liners shall be .090" smooth aluminum, painted with Multi-spec paint to coordinate with the patient compartment interior and screwed to the door extrusion flanges with machined stainless steel screws into automotive style spring clips. Screws for both compartment and entry door liners are treated with Loc-Tite to prevent the screws from backing out on their own.

All modular body entrance doors shall be equipped with emergency over ride lock release latches. Each door shall have an upper and lower over ride lock release lever coated with black rubber.

One (1) 16-20-1055 Sill Protectors, Stainless, All Compts and Entry Doors Y___N___

COMPARTMENT SILL PROTECTORS

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

One (1) 16-20-0100 Compartment and Entry Door Latching Hardware (Standard) Y___N___

DOOR LATCHING HARDWARE

All module doors, compartment over 23" high and entry, shall utilize two (2) rotary style latches per door leaf, closing onto two (2) "Nader" striker pins with capped heads and adjustable cage nuts. Smaller doors, under 23" high shall be able to use (1) rotary style latch. Construction using other latching methods, striker pins without capped ends NOT acceptable.

Four (4) 16-20-0200 Handle, Module Compt, Trimark 2015 Chrome/Black, Locking Paddle - Curbside Y___N___

COMPARTMENT DOOR LATCHES, HINGES AND HARDWARE

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

The compartment door handles shall be Trimark paddle style handle with a large enough space for gloved hands to operate the handle. The door handles shall be free floating with 1008 cold rolled steel mechanical components with Nitrotec treated wear components. The locks shall be a lock cylinder with a reversible key. The compartment door entry system shall have been tested to 50,000 cycles. The door handle shall be mounted to the exterior door panel using mechanical

fasteners and rubber gaskets that will eliminate the possibility of electrolysis. All doors shall have closed cell block foam insulation.

Three (3) 16-20-0250 Handle, Module Compt, Trimark 2015 Chrome/Black, Locking Paddle - Streetside Y___N___

COMPARTMENT DOOR LATCHES, HINGES AND HARDWARE

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

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

Seven (7) 16-20-1410 Compartment Door Hold Open - Gas Strut (per Compartment) Y___N___

COMPARTMENT HOLD-OPEN

Each exterior compartment door shall have a gas-strut hold open to keep the doors open at a 90 degree angle.

One (1) 16-22-0110 Curbside Entry Door , Hinged Y___N___

SIDE ENTRY DOOR

A side entry door to the patient compartment shall be provided, sized and located as shown in the attached prints. It shall have a full length stainless steel hinge, with pin not less than 1/4" in diameter, on the forward edge of the door and a gas strut controlled door chFluid Film which will hold the door at not less than 90 degrees when open.

One (1) 16-22-1350 Handles, Patient Entry, Trimark Paddle with "Safety Latches" Y___N___

PATIENT ENTRY DOOR LATCHES, HINGES AND HARDWARE

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

The door handles shall be Trimark chrome paddle style handle with a large enough space for gloved hands to operate the handle. The door handles shall be free floating with 1008 cold rolled steel mechanical components with Nitrotec treated wear components. The locks shall be a lock cylinder with a reversible key. The rear trailing door shall have an exterior paddle handle that removes the necessity of reaching inside the patient compartment door. The door entry system shall have been tested to 100,000 cycles.

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

One (1) Rear Entry Doors Y___N___
16-24-0110

REAR ENTRY DOORS

Double leaf rear entry doors to the patient compartment shall be provided, sized and located as shown in the attached prints. They shall have a full length stainless steel hinges with pins not less than 1/4" in diameter.

One (1) Rear Entry Doors, (1) Pair 3 1/2" Cast Grabber Door Checks Y___N___
16-24-3000

REAR ENTRY DOOR CHFluid FilmS

One (1) pair of 3-1/2" "Grabber" door hold open devices shall be installed on the exterior of the doors to hold them open when necessary. The devices shall be located on the approximate horizontal centerline of each door as indicated in the attached prints. The rubber insert into the "female" side of the hold open device shall be replaceable.

One (1) Window, Side Entry Door, Upper, Dark Tint Y___N___

16-30-0100

One (1) Window, 19" X 18" Dark Tint Slider Y___N___
16-35-0010

ENTRY DOOR WINDOW

A 19" x 18" black aluminum framed window is to be centered in the entry door, with the top of the window about 6" down from the top of the door. The dark tinted window shall be capable of opening via a sliding section of the glass. The sliding section must be positively latched when in the closed position to prevent it from being opened from the outside. It must also include a sliding screen section to cover the opening.

One (1) Clamp Ring - Window 19" X 18" - 2.28" Wall Y___N___
16-35-0200

Two (2) Window, Rear Entry Door, Upper, Dark Tint Y___N___
16-30-0600

Two (2) Window, 19" X 18" Dark Tint Fixed Y___N___
16-35-0030

ENTRY DOOR WINDOW

A 19" wide x 18" high black aluminum framed window is to be centered in the entry door, with the top of the window about 6" down from the top of the door. The dark tinted window shall be single piece fixed glass.

Two (2) Clamp Ring - Window 19" X 18" - 2.28" Wall Y___N___
16-35-0200

Four (4) 2" x 2.75" Reflector - Red (standard) Y___N___
16-40-0110

EXTERIOR BODY REFLECTORS

Four (4) 2" x 2.75" Red reflectors shall be provided and installed as follows... One (1) each in the lower rear corner of each side of the module and, One (1) each in the lower right and left corners of the rear wall of the module.

One (1) General Electrical System Information (Specification) Y___N___
31-10-0100

CONVERSION ELECTRICAL SYSTEM

This vehicle's 12-Volt DC power supply shall be separate and distinct from the chassis (OEM) system, except that both will be powered by the same chassis generating system and batteries. The total ambulance electrical system shall be equipped with, but not limited to the following: dual 12-volt batteries, generating, starting, lighting, ignition, visual and audible warning systems, specified electrical equipment and devices including master switch consoles located in the cab and

patient compartment, plus other specified accessory wiring. The electrical systems and equipment shall comply with all applicable FMVSS including Federal Motor Carrier Safety Regulations (FMCSR). It shall also conform to all the applicable Society of Automotive Engineers (SAE) recommended standards and practices, whether or not specifically referenced in this document.

All electrical and electronic components shall be selected to minimize loads, thereby not exceeding the vehicle's generating system capacity. System components must be readily accessible through access panels or doors for routine service and maintenance. Likewise switches, indicators and controls shall be located and installed in such a manner so as to facilitate routine service, maintenance and replacement.

All electronic devices and equipment installed in this ambulance must have proper filters, suppressers or shielding to contain electromagnetic radiation and prevent radio frequency interference (RFI).

WIRING

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

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

Wiring shall be routed in conduit or high temperature looms with a rating of 300 degrees Fahrenheit where necessary to protect it. All added wiring shall be located in accessible, enclosed, and protected locations and kept at least six inches from the exhaust system components. Electrical wiring and components shall not terminate or be routed in the oxygen storage compartment except for the oxygen controlled solenoid, compartment light, and switch plunger. All conduits, looms, and wiring shall be secured to the body or frame with insulated metal cable straps in order to prevent sagging and movement which results in

chafing, pinching, snagging or any other damage. All apertures on the vehicle shall be properly grommeted and sealed for passing wiring and conform to SAE 1292. All items used for protecting or securing the wiring shall be appropriate for the specific application and be standard automotive, aircraft, marine, or electronic hardware.
Circuit connections shall be made on barrier style terminal blocks utilizing binding post screws for positive mechanical connections. To minimize the potential for wiring shorts and voltage drops all wiring terminals shall be brass, tin plated, annealed, ETP copper with nylon high heat insulation. Serration's, inside the barrel, provide maximum contact and tensile strength after crimping. Connection shall be machine crimped, to UL standards, with a high quality crimping tool that produces crimps for a given size wire and terminal that are precisely alike in appearance and performance. Crimping pressure must be controlled by a ratchet device on the hand tool or a corresponding pre-calibration in the crimping jaws of an automated machine. Crimping pressure can neither over-stress nor under stress the terminal-barrel-machined dies. Therefore, this agency requires a termination that is free of contamination and is extremely resistant to shock and critical environment conditions.

No splices shall be permitted except for connection of "pig-tail" devices. Butt splices are permitted for connection of "pig-tail" devices. The use of IDC (**I**nsulation **D**isplacement **C**onnector) connectors, i.e.: "3M Scotchlok" type fasteners, is not acceptable.

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

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

One (1) 12 Volt Load Center Location [J-Box] (Standard) Y___N___
31-10-0120

12 VOLT LOAD CENTER

The 12 volt load center is the location of the conversion electrical system's major 12 volt electrical control and distribution components. The load center will be within a designated interior cabinet located above the module walk/pass through and may not be mounted in the engine compartment nor in any outside or outside accessible compartment. This cabinet shall be accessible through a hinged, locked door.

One (1) 12 Volt Electrical System, Printed Circuit Board Y___N___
31-10-0216

12 VOLT ELECTRICAL SYSTEM

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

The printed circuit board shall be designed and manufactured as follows: A screen printed board with all circuits fully numbered and labeled. The circuit board shall be a double-sided copper trace printed circuit with a double-sided laminated isolator. The board shall be non photo image able solder mask over bare copper with hot air leveled solder over non masked copper. Fuse capacity is the beginning factor in calculating trace width to ensure proper current carrying capability. The circuits shall then be oversized as much as space permits for maximum cooling of the board. All holes shall be plated through. The terminal strips shall be mounted on the board for connection of the above mentioned wiring harness. Automotive transient suppressers must be incorporated into circuit board at the point of cable entry to the board. All relays must include built in noise suppression. The suppression must be accomplished with a IN4001 parallel with the coil. The relay must have a 40 ampere continuous contact rating with one form C contact arrangement. Normally open contact must have a maximum initial voltage drop of 200 milli-volts at 40 ampere contact load. The relays must withstand 24 VDC for five minutes conducting rated contact current in case of accidental 24 volt jump start condition. Circuit board options must be programmable via jumpers to facilitate addition of options. The color of wire and circuit number must be screened printed at the terminal block connections on the board for rapid identification and relation to schematics.
Documentation that the above requirements are met must be included with the bid document.

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

The printed circuit board must meet the following specifications:

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

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

DRIVER'S SWITCH PANEL

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

The rocker switches shall have integrated label lens area that is illuminated by two independent LED's. The LED brightness shall be controlled by the headlight rheostat.

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

ATTENDANT'S SWITCH PANEL

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

One (1) Door Open Indicator -Excel Y___N___
31-15-0245

OPEN DOOR INDICATOR

One (1) "open door" indicator shall be provided and installed in the cab console. It shall feature an engraved top view diagram of an ambulance with flashing LED lights to indicate which exterior storage compartment and/or entry door is open.

One (1) 31-15-0195 Console Gauge, Voltmeter Y___N___

DRIVER'S CONTROL CONSOLE GAUGES

VOLT METER
It shall monitor system voltage in a range between 7 and 18 volts, and must be wired to eliminate erroneous readings from connection voltage drops.

One (1) 53-12-0105 I-Warning Light Flasher, Vanner 9860GCPE (Standard)) Y___N___

WARNING LIGHT FLASHER

A Vanner 9860GCPE programmable flasher shall be provided and installed to flash the warning lights at a rate of 75 to 80 flashes per minute

One (1) 53-16-0100 Warning Light Flash Pattern, K-Spec Y___N___

The warning lights shall flash as described in the KKK-A-1822 specification.

One (1) 31-15-0183 Alarm, Low Voltage, Audio/Visual Y___N___

LOW VOLTAGE ALARM

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

One (1) 31-20-0132 Module Power Disconnect Switch, w/ A&J Timer, Chevy Type 1 Y___N___

BATTERY SYSTEM

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

MODULE POWER DISCONNECT SWITCH

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

One (1) 31-20-0150 Auto Shut Down Timer (Kill Circuit) NONE Y___N___

The Timer on the battery circuit shall be deleted.

One (1) 31-25-0100 12 Volt Recepts, Cigarette Lighter Style, Two(2) Y___N___

12 VOLT RECEPTACLES

The patient compartment shall be supplied with a 12-Volt DC 20 amp service capacity. This circuit must incorporate a Schottky diode or similar device to isolate medical equipment connected to the system.

Two (2) cigar lighter style 12 volt receptacles shall be installed; one (1) in the action area, and one (1) in the curbside front inside/outside (ALS) compartment. They shall be battery hot at all times. The receptacle shall include a stainless steel face plate and a rubber cap to protect the opening when not in use.

Two (2) 31-25-0181 Outlet, Kussmaul, USB Dual Port, 5VDC, 3 Amp output, switch panel Style Y___N___

PORT 5 VOLT DC POWER USB STYLE

The patient compartment shall be furnished with a 5 volt DC, 3 ampere capacity, separately protected circuit, with a Dual USB outlet. It shall be located in the action area switch panel.

One (1) 31-25-0700 No Temperature Controlled Storage Required Y___N___

One (1) 32-10-0100 110 Volt AC Wiring And Components Y___N___

110 VOLT AC WIRING AND COMPONENTS

This vehicle shall be furnished with a two (2) wire plus ground 110 volt AC wiring system completely separate from its 12 volt DC system. It must comply with Article 551 of the National Electrical Code and is to be used for powering maintenance devices, battery chargers, etc. while on standby.

One (1) 32-14-0500 Shoreline, 20A Straight Blade Y___N___

SHORE POWER

A straight blade system inlet, or "shoreline inlet" shall be installed where indicated in the attached drawings. It must contain a male inlet connection rated and labeled for 20 amps, suitable for wet conditions, and be protected by a gray thermoplastic cover. A properly sized female mating plug (NEMA 5-20) must also be provided for connection to this agency's wiring.

One (1) Inverter, Pre-Wire (Standard) Y___N___
32-26-0110

INVERTER PRE-WIRE

Wiring will be furnished and installed for an inverter in the streetside #2 compartment. This wiring shall include power and ground feeds as well as system feeds connected to the interior outlets. This wiring shall be suitable for the installation and operation of an inverter. A Vanner 1050 CUL –DC Inverter/w charger shall be installed in the vehicle.

One (1) Recepts, (3) AC Hospital Grade Duplexes Y___N___
32-30-0100

110 VOLT RECEPTACLES

Three (3) hospital grade 110 volt AC duplex receptacles with green internal pilot lights shall be installed in the patient compartment as follows: one (1) in the action area; one (1) in the curbside front inside/outside (ALS) cabinet; one (1) on the street side wall in the monitor/defibrillator shelf area.

One (1) Dome lights, Dual Filament Weldon 8046, Eight (8) Y___N___
33-10-0100

INTERIOR DOME LIGHTING

General lighting for the patient compartment shall be as follows: Eight (8) overhead dual-intensity LED dome lights shall be mounted, four (4) over the squad bench side and four (4) over the primary cot side. These lights must be recessed into the ceiling headliner, protruding not more than 1 1/2". They must be secured to aluminum backing plates welded to the roof structure above the headliner and may not be fastened solely to the headliner material.

Any lighting system using a rheostat to control lamp intensity is NOT acceptable to this agency.

These lights are to be controlled by switches in the attendant's switch console.

One (1) Dome Lights, Curbside Activate on Opening of Entry Doors Y___N___
33-10-0190

Additionally, the curbside dome lights shall automatically light on their "low" setting when either the side or rear entry doors are opened.

One (1) Light, Side Entry Stepwell, (1) Recessed 3/4" 2 diode LED Y___N___
33-10-0660

STEPWELL LIGHTING

One (1) 3/4" recessed, two diode, LED light shall be provided and installed in the left (rear) wall of the side entry stepwell and shall be wired to operate when the side entry door is open.

One (1) 53-30-0160	3/4" Recessed 2 diode LED	Y___N___
One (1) 33-10-0710	Entry Door Reflectors	Y___N___

ENTRY DOOR REFLECTORS

One Red 3" round reflector shall be provided and installed in the lower corner of each module entry door.

Three (3) 16-40-0140	3" round reflector - Red	Y___N___
One (1) 33-10-0880	Action Area Light, LED 8" Strip Light	Y___N___

ACTION AREA LIGHTING

One (1) 8" LED strip light will be mounted in the action area. It will be controlled by a switch in the rear switch panel.

One (1) 33-10-1000	Spotlight, Handheld, Optronics "BlueEye", 400,000 CP , Standard	Y___N___

HANDHELD SPOTLIGHT

A 400,000cp hand held spotlight shall be provided with a minimum of one hundred thousand candle power lamp. It shall be in a corrosion proof housing with a protected momentary switch to prevent accidental activation. A minimum eight feet of heavy duty coiled cord will be supplied and it shall be hard wired in the cab area and accessible to the driver and passenger.

One (1) 33-10-1100	Spotlight Mounting Location (Required)	Y___N___
One (1) 33-10-1120	Spotlight Mounting Location, Hardwire to console	Y___N___

The spotlight shall be hard wired to connections installed in the console in the cab.

Two (2) 33-10-2020	ALS Cabinet Lights, 2 7/8" Recessed Incandescent	Y___N___

ALS CABINET LIGHTING

Two (2) 2 7/8" recessed incandescent light with clear lens and aluminum flange(s) shall be mounted in the ALS Cabinet.

Two (2) 53-30-0170	2 7/8" Recessed Incandescent	Y___N___
One (1)	Exterior Lighting Requirements - General	Y___N___

34-10-0400

EXTERIOR LIGHTING

Exterior lighting fixtures shall be corrosion and weather resistant. Fixtures attached to the sides of the ambulance below the 75" level shall be near flush mounted, not protruding more than 2".

Because of this agency's concern for corrosion protection, all exterior lighting shall be attached to the body or chassis using nylon inserts which shall serve to isolate the mounting screws from the aluminum or sheet metal. The holes into which the nylon inserts are placed must be drilled prior to painting the body so that paint protects the edge of the aluminum at each hole. Methods of attaching the light fixtures to the body or chassis that involve the screw coming into direct contact with the aluminum or sheet metal are not desired - even if purported "anti-corrosion" coatings are applied to the mounting screws beforehand.

One (1) DOT Clearance and Marker Lighting Y___N___
34-25-0500

One (1) DOT Clearance and Marker Lighting (Front/Rear Module Walls)- STD Y___N___
34-25-0700

CLEARANCE AND MARKER LIGHTING

Five (5) amber LED upper body marker/clearance lights are to be mounted at the extreme upper front edge of the module, above the drip rails, in accordance with FMVSS requirements. See attached drawings.

Five (5) red LED upper body marker/clearance lights are to be mounted at the extreme upper rear edge of the module, above the drip rails, in accordance with FMVSS requirements. See attached drawings.

Two (2) Trucklite 4" Super 44 LED Clearance and Marker Lighting (Side Walls-Round) Y___N___
34-25-0720

One (1) TruckLite Super #44 red LED body marker/clearance light is to be mounted at the rear streetside vertical extrusion at approximately the midway point in accordance with FMVSS requirements. See attached drawings.

One (1) TruckLite Super #44 red LED body marker/clearance light is to be mounted at the rear curbside vertical extrusion at approximately the midway point in accordance with FMVSS requirements. See attached drawings.

One (1) Lightbar, Front, None Required, 7-Light Pattern, Whel LED Warn. Y___N___
35-12-0160

FRONT MODULE WALL EXTERIOR LIGHTING

WARNING LIGHTS

Seven (7) Whelen 900 series Super L.E.D. flashing lights shall be provided and installed on the upper front wall of the ambulance body, below the drip rail, as per the attached prints.

The lens color (from passenger side to driver's side) will be: Red / Clear / Red / Clear \ Red \ Clear \ Red.

One (1) 38-41-0610 Lightbar, Rear, None Required, Whel LED Warn. Y___N___

REAR MODULE WALL EXTERIOR LIGHTING

WARNING LIGHTS

Three (3) Whelen 900 series Super L.E.D. lights shall be provided and installed on the upper front wall of the ambulance body, below the drip rail, as per the attached prints.

SCENE LIGHTS

Two (2) Whelen 900 series Super L.E.D. scene lights shall be mounted on the upper rear of the ambulance as shown in the attached drawings.

These lights will be controlled via a switch on the cab console and shall operate whenever the rear entry doors are open and also whenever the chassis is placed in "reverse" gear.

The lens color (from passenger side to driver's side) will be: Red / Scene / Amber \ Scene \Red

One (1) 38-89-9410 Rear Scene Lights, Activate on Opening of Rear Entry Doors Y___N___

The rear wall scene lights of the ambulance shall be wired to operate in conjunction with the opening of the rear entry doors.

One (1) 45-35-0510 T/B/T/BU Lights, Whelen,4x6,LED,single turns Y___N___

STOP, TAIL, TURN AND BACKUP LIGHTING

TAIL/BRAKE

Two (2) Whelen 600 series Super L.E.D. tail/brake lights with Red lenses shall be installed on the rear of the module as shown in the attached drawings.

TURN SIGNAL

Two (2) Whelen 600 series Super L.E.D. turn signal lights with amber arrow lenses, shall be mounted on the rear of the module as shown in the attached drawings.

BACKUP

Two (2) Whelen 600 series Super L.E.D. Halogen. backup lights with clear lenses shall be installed on the rear of the module as shown in the attached drawings.

One (1) 47-05-0560 — CS Warning Lights Spec Verbage, Whel LED , dual scene — Y___N___

CURBSIDE MODULE WALL EXTERIOR LIGHTING

WARNING LIGHTS

Two (2) Whelen 900 series Super L.E.D. lights shall be provided and installed on the upper curbside wall of the ambulance body, below the drip rail, as per the attached prints.

SCENE LIGHTS

Two (2) Whelen 900 series Super L.E.D. scene lights shall be mounted on the upper curbside of the ambulance as shown in the attached drawings.

The lens color (from front to rear) will be: Red / Scene / Scene / Red

These lights will be controlled via a switch on the cab console.

One (1) 47-55-0560 — SS Warning Lights Spec Verbage, Whel LED , dual scene — Y___N___

STREETSIDE MODULE WALL EXTERIOR LIGHTING

WARNING LIGHTS

Two (2) Whelen 900 series Super L.E.D. lights shall be provided and installed on the upper streetside wall of the ambulance body, below the drip rail, as per the attached prints.

SCENE LIGHTS

Two (2) Whelen 900 series Super L.E.D. scene lights shall be mounted on the upper streetside of the ambulance as shown in the attached drawings.

The lens color (from front to rear) will be: Red / Scene / Scene / Red

These lights will be controlled via a switch on the cab console.

Six (6) 53-34-0150 — Compartment Lights, 2 7/8" Recessed L.E.D. — Y___N___

COMPARTMENT LIGHTING

One (1) 2 7/8" recessed L.E.D. light with clear lens and aluminum or rubber flange(s) shall be mounted in each exterior storage compartment except Compartment #2 which shall have two (2) lights.. The lights shall operate whenever the compartment door is open and the battery disconnect switch is on.

Six (6) 53-30-0170 — 2 7/8" Recessed L.E.D. or Equivalent — Y___N___

One (1) 55-10-0100 — Back-up Alarm, Auto Reset, 97 dBa (Standard) — Y___N___

BACK-UP ALARM

A solid state back-up alarm capable of sounding an alarm of at least 90 decibels shall be installed so that when the chassis gear selector is placed in "Reverse", it will automatically activate. The alarm must be able to be momentarily shut off via a switch located on the driver's switch console. However, the alarm must reset automatically so that it will sound again when reverse gear is selected.

One (1) 55-12-0220 — Siren, Whelen 295HFSA7 — Y___N___

SIREN

A Whelen #295HFSA7 siren shall be installed in the console located in the cab. It shall be wired so that it will operate when the Ignition switch is "On". The siren shall be capable of powering (2) 100 amp speakers.

One (1) 55-30-0000 — COMMUNICATION PROVISIONS AND EQUIPMENT — Y___N___

Two (2) 55-35-0100 — Antenna, Coax — Y___N___

ANTENNA COAX WIRING

It shall include a shielded coax cable with a PL-259 connector which will terminate behind the driver's seat with enough pig-tail to reach to the dash area if necessary.

Two (2) 55-38-0110 — Radio Power and Ground Wires IATS — Y___N___

ANTENNA POWER/GROUND WIRES

A 10 gauge Red power wire and a Black ground wire shall terminate ____. The power wire shall be protected by a 20A (minimum) breaker or fuse.

Two (2) 55-00-0130 — Antenna Power and Ground — Y___N___

One (1) — Exhaust Fan, Single 12V Blower (Standard) — Y___N___

57-24-0100

EXHAUST FANS

The patient compartment of this ambulance will be ventilated with fresh outside air via one (1) static intake vent and one (1) power exhaust vents. The system shall be capable of completely exchanging the air volume within the patient compartment every two (2) minutes. The location of the intake and exhaust vents shall be as indicated in the attached drawings.

One (1) 60-10-0130 Entry Doors Liners, Full Length Design Y___N___

One (1) 60-10-0320 Entry Doors, Full Length Liners, Brushed Stainless Steel, STD Y___N___

ENTRY DOOR LINERS

The entry doors shall be finished using 14 GA brushed Stainless Steel. The liner shall be secured to the inside of the entry doors using black oxide or stainless steel screws and finish washers.

One (1) 60-10-0380 Entry Doors, Lock Box Cover, Red/White reflective striping (McCoy Logo) Y___N___

ENTRY DOOR LINERS

The entry doors shall have a removable cover to allow the end user to maintain the door handles without having to dissassemble and remove the entire door panel. This panel shall have red and white reflective striping to meet N.F.P.A. 1917.

Three (3) 62-10-0150 Entry Door Grab Bars, 1.25" S/S, 45° "V" Style Y___N___

ENTRY DOOR GRAB BARS

A 1.25" diameter stainless steel grab bar with 45 degree "V"-style bend shall be provided and installed on the inside of each entry door, as shown in the attached drawings.

One (1) 62-20-0300 Wall Mounted Grab Handles, Two (2) Y___N___

INTERIOR GRAB BARS

A grab handle shall be provided and installed on the lower section of the ALS cabinet.

An additional grab handle shall be provided and installed on the curbside rear lower cabinet.

Two (2) Grab Handle, Chrome Y___N___

62-20-0100

The grab bar(s) shall have a chrome finish.

One (1) Grab Bar, Above Cot 1.25" x 96" Stainless Steel ILOS Y___N___
62-30-0320

GRAB BAR

One (1) stainless steel grab bar shall be provided and ceiling mounted above the primary cot per the attached prints. It shall be 1.25" diameter x 96" long - all fastening points must fall on roof structure or backer plates welded to roof structure.

One (1) Upholstery, Seamless Vinyl, Solid Color (Standard) Y___N___
68-10-0010

UPHOLSTERY

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

One (1) Upholstery Color, Ash Gray Y___N___
68-10-0160

The upholstery color shall be "Ash Gray"

One (1) Padded Vinyl Trim (Standard) Y___N___
68-10-0520

PADDED TRIM

To mitigate injury to passengers, trim pieces consisting of 1/4" plywood covered with 1/4" high density foam and wrapped with heavy duty vinyl to match seating upholstery will be installed:

A. At the vertical outside corner of the cabinet forward of the attendant seat

B. At the upper horizontal and vertical corners above the action area

C. At the upper horizontal and vertical corners above the defibrillator shelf

One (1) Flooring, Lon Seal "Lon Plate II" , SWB Y___N___
68-20-0100

FLOORING

The finish flooring shall be one (1) piece, heavy duty commercial grade vinyl (Lon Seal Lon Plate II), permanently adhered to the sub-floor.

Because of this agency's concern for ease of cleaning and decontamination (when necessary) where the floor and the sidewall cabinets and squad bench base it shall be rolled up the vertical wall 3".

One (1) 68-20-0370 Flooring Color, "Lon Plate II", Gunpowder 424TX Y___N___

The flooring color shall be Gunpowder #424TX

One (1) 68-30-0100 Floor Sill Plates, Brushed Stainless Steel (Standard) Y___N___

ENTRY DOOR SILL PLATES

20 ga. brushed stainless steel plates shall be provided and installed as follows:

A. Just inside the rear patient compartment entry doors at the floor. The plate shall extend from the door sill into the patient compartment approximately 3".

B. At the side entry stepwell / floor transition. The sill plates shall be formed to trim the edge of the floor cutout around the side entry stepwell structure. The width of these plates shall be approximately 2".

Sill plates shall be fastened using stainless steel screws countersunk flush with the surface. Additionally, clear silicone sealant shall be used to seal the plates to the flooring to prevent accumulation of fluids beneath.

One (1) 69-08-0140 Attendant's Seat, EVS 1882-3 Hi-Back Child Safety w/3PT harness Y___N___

ATTENDANT'S SEAT

A high back, rear facing automotive style attendant's seat shall be provided and installed adjacent to the Action Area. It shall be an EVS brand "Safety Seat" and shall feature a child safety seat incorporated into the design. A 3 point safety harness system shall be provided.

One (1) 69-08-1020 Attendant's Seat Base, EVS CBS Box Style Y___N___

ATTENDANT'S SEAT BASE

An EVS brand box style steel seat base shall be provided for the rear facing attendant's seat. The assembly shall be bolted to the floor through mounting plates welded into the floor structural tubing.

One (1) 69-08-1420 No Cover Cabinet over EVS base Y___N___

One (1) Door, Diamond Plate, EVS Seatbase Y___N___

69-09-0100

One (1) Door/Drawer Latch, Southco M1 S/S - Locking -CN 10 Certified Y___N___
69-60-0125

CABINET DOOR LATCHES - NON-LOCKING

One (1) polished stainless steel locking Southco M1 Series flush pull latch(es) shall be installed in cabinet doors as indicated in the attached drawings.

One (1) Interior Cabinetry, Plywood Medic MML Y___N___
69-10-0311

INTERIOR CABINETRY

CONSTRUCTION REQUIREMENTS

In general, the interior of this ambulance shall incorporate features to mitigate injuries to passengers caused by sudden hard braking or accident impact. Exposed edges shall be protected by radius or chamfer trim and, where possible, corners shall be rounded with radius trim. All devices and equipment will be mounted as flush as possible with its surrounding surface. Padding shall be installed in areas where features may obstruct head movement as attendants work within the patient compartment.

The layout of interior cabinetry for this ambulance shall be as indicated in the enclosed drawings. Variation from this design may not serve the needs and requirements of this agency and may be cause for rejection of the bid. As stated earlier in this document, the bidder must supply drawings which will be considered when determining whether a particular design meets our needs.

The cabinets in this vehicle shall be constructed of Marine Grade Featherply plywood which has been covered by a commercial grade high pressure plastic laminate on BOTH sides prior to its use in fabricating the cabinetry. The face and inside of the cabinets shall be covered by a commercial grade laminate, adhered to the cabinet face by a high quality poly vinyl adhesive using a thermal press application. The wood, adhesive and laminate shall be pressed together at 200 degrees for four minutes in a thermal platen press. There shall be no voids of the adhesive between the laminate and the cabinet surfaces. The manual application of laminate on one or both sides of cabinetry after or during assembly is NOT acceptable. Plastic, fiberglass, or composite wood will not be acceptable for use in the cabinetry structure. "Marine grade" plywood shall be defined as being devoid of gaps or spaces in each ply, not just outer surface layers. The thickness of the finished panels used to construct the cabinets, shelves and doors shall be 3/4 inches including mica and adhesive.

All cabinets will be fastened together using 8 mm dowels placed no farther than 32 mm apart. The dowels shall be a hardwood and pre-glued. Construction that staples or uses wood screws driven into the edge of the plywood is NOT

acceptable due to the reduced holding capability of screws driven into the veneered edge. Additionally, cabinetry shall be firmly bolted to mounting plates welded to the body side structure.

One (1) 69-10-0685 Cabinetry Laminate Color: Dove Gray (Matte) Y___N___

CABINET LAMINATE COLOR

The laminate color for the outside finish of all cabinets shall be Dove Gray (Matte finish). The laminate color for the inside finish of the cabinetry shall be Dove Gray.

One (1) 69-12-0510 Headliner, Patient Compartment, Vinyl Wrapped Y___N___

CEILING HEADLINER

The ceiling will be finished with 1/8" Luan backed padded white vinyl panels. Any seams shall be trimmed to prevent sagging and provide a clean attractive appearance. The ceiling panel shall be mechanically attached to the roof structure but all fasteners shall be hidden.

The use of un-backed fiberglass headliner materials will not be acceptable due to their potential for cracking and spalling. Along the longitudinal center of the ceiling, a padded cover shall be installed to close-off the electrical wiring chase. It must be covered with vinyl to match the upholstery.

One (1) 69-14-0100 Electrical (J-Box) - Standard Configuration Y___N___

ELECTRICAL (J-BOX) CABINET

The Electrical (J-Box) cabinet will be located at the front of the ambulance interior. It will be designed to house the primary components of the module electrical systems, both 12VDC and 110VAC. The cabinet will be configured as indicated in the attached drawings.

One (1) 69-16-0110 ALS Cabinet - Custom Configuration ILOS Y___N___

ALS CABINET

The ALS cabinet will be located at the right front corner of the ambulance interior. It will feature interior as well as exterior access to storage areas. The cabinet will be configured as indicated in the attached drawings.

One (1) 69-18-0110 Glove Box Cabinet, Three Hole Design Above Side Entry Y___N___

GLOVE BOX CABINET

A cabinet shall be built and installed above the side entry door to house three boxes of protective gloves. The cabinet shall have a single, clear Plexiglas door with three oval cutouts to allow gloves to be removed without opening the door.

The bottom edge of the glove box shall be covered by padded vinyl trim to protect occupants.

One (1) 69-22-0200 Squad Bench Base, Wood Construction M Y___N___

SQUAD BENCH BASE

The squad bench shall be constructed of marine grade featherlite plywood with commercial grade high pressure plastic laminate surfaces. It shall have approximate dimensions of 16.75" high x 20" deep x length shown in the prints.

Two (2) sets of six point seat belts with automatic retractors shall be installed to serve two (2) seated persons, and three two point belts for one (1) secondary stretcher or backboard.

One (1) 69-22-1130 Squad Bench Lid, Split , 3/4" Plywood Y___N___

SQUAD BENCH LID

The squad bench shall have a two (2) piece laminated 3/4" plywood lid which will be hinged along the back of the bench with stainless steel continuous (piano) hinges. It shall have one (1) gas charged strut hold open device installed beneath each lid section. In addition each lid section shall have a paddle handle latch, mounted on the squad bench riser, to provide a positive latch point to prevent the bench lids from opening in the event of an accident . .

One (1) 69-22-1200 Squad Bench Interior, Plywood w/ Lam Y___N___

SQUAD BENCH INTERIOR LINING

The area beneath the squad bench shall be lined with 3/4" plywood with commercial grade high pressure laminate to provide flat, easily cleanable storage.

One (1) 69-22-1410 Embossed Rubber Liner Under Squad Bench Y___N___

SQUAD BENCH INTERIOR LINING

A black rubber liner material with embossed pebbled pattern shall be installed on the floor of the storage space beneath the squad bench.

One (1) 69-22-1300 SEAT BELTING SQUAD BENCH & CPR SEAT: Y___N___

Three (3) Seatbelt, Assy, (6) Point, (1) EA - Change Notice 8 -Compliant Y___N___

69-22-1301

One (1) 69-24-0170 Squad Bench Arm Rest, A-Bar w/ Sharps and Trash Brackets Y___N___

GRAB BAR AT HEAD OF SQUAD BENCH

One (1) 1.25" diameter stainless steel "A" style grab bar shall be provided and mounted at the end of the squad bench. It shall be provided with sharps and trash brackets and shall be through bolted with an aluminum backer plate.

One (1) 73-20-0510 Sharps Container, Mail Box Style, 2-Quart , installed Y___N___

SHARPS CONTAINER - INSTALLED

One (1) two-quart mail box drop style sharps container with wire mounting bracket shall be supplied and installed in the A-Bar at the end of the squad bench.

One (1) 73-40-0520 Trash Container, 2 Gallon, Installed Y___N___

TRASH CONTAINER - INSTALLED

One (1) two-gallon plastic trash container shall be supplied and installed in the A-bar at the end of the squad bench.

One (1) 69-24-0320 Net At Forward End of Squad Bench Floor to Ceiling - Black Y___N___

NET AT FORWARD END OF SQUAD BENCH

A net shall be provided at the forward end of the squad bench. It shall be installed from the floor at the head of the squad bench to the ceiling, with seatbelt buckles at the bottom and bolted to the ceiling at the top.

One (1) 16-50-1600 Backer Plates, in Ceiling For Squad Bench Web Barrier Y___N___

One (1) 69-30-0100 Streetside Cabinetry - Standard Configuration, Y___N___

STREETSIDE CABINETRY

The Streetside cabinetry will be configured as indicated in the attached drawings.

One (1) 69-36-0150 CPR Seat Interior, Plywood w/Laminate Y___N___

CPR SEAT INTERIOR LINING

The area beneath the CPR seat shall be lined with marine grade featherlite plywood with commercial grade high pressure laminate to provide flat, easily cleanable storage.

One (1) 69-36-0190 Embossed Rubber Liner Under CPR Seat Y___N___

CPR SEAT INTERIOR LINING

A black rubber liner material with embossed pebbled pattern shall be installed on the floor of the storage space beneath the CPR seat.

One (1) 69-40-0110 Countertop, Action Area, Formica Y___N___

ACTION AREA COUNTERTOP

The Action Area shelf shall be finished with Formica in the same color as the rest of the cabinetry.

Four (4) 69-48-0120 Cabinet Shelves, 3/4" Plywood w/ Laminate Y___N___

INTERIOR CABINET SHELVING - 3/4" PLYWOOD

All interior cabinet shelves shall be constructed of 3/4" plywood with commercial grade high pressure plastic laminate on both sides. The front edge will be finished with an aluminum angle which shall provide a 1/2" high lip to help retain items placed on the shelf.

Four (4) 69-48-0310 Shelf Liner, Embossed Rubber IATS (for all non-alum shelves) Y___N___

SHELF LINER

Install black embossed rubber material on the floor of all interior shelves in this ambulance.

Four (4) 69-48-0430 Cabinet Shelf Track, Unistrut Aluminum Y___N___

ADJUSTABLE SHELF TRACK

Four (4) Unistrut #P7000EA extruded aluminum channels shall be fastened to the inside of each cabinet. Shelves will be supported using aluminum angle clips that fasten to the shelf tracks with a #10-24 machine screw and spring backed channel nut designed to slide within the channel slot.

One (1) 69-52-0150 Cabinet Doors/Windows, General (Plywood) Y___N___

CABINET DOORS

Cabinet doors shall be as indicated in the attached drawings.

Sliding Plexiglas doors will be mounted in rubber/felt lined satin anodized aluminum tracks. The doors shall slide easily but with enough resistance to

preven inadvertent opening while the ambulance is in motion. The doors shall have the cabinet securement hole drilled for sealing of cabinets. The rubber/felt track liners must be replaceable.

The leading edge of each sliding door shall have a full height extruded aluminum pull handle applied to the Plexiglas using a permanent adhesive. Screwing or bolting the handles in-place will not be acceptable since doing so has proven to lead to premature failure of the Plexiglas. Likewise, finger holes will not be acceptable due to the potential for injury to ambulance personnel.

Hinged plywood doors shall have high pressure laminate on both sides. The doors shall have bright finished "piano" hinges and black plastic Southco M1 flush pull latches. The edges of the door panels are to be finished w/ satin anodized aluminum edge trim.

Picture frame style doors shall have high pressure laminate on both sides and 3/8" thick Plexiglas vision inserts. The doors shall have bright finished "piano" hinges, 4" satin aluminum wire pulls and black plastic Southco "Grabber" catches. The edges of the door panels are to be finished w/ satin anodized aluminum edge trim.

One (1) Polycarbonate, Clear Y___N___
69-58-0122

CABINET DOORS AND FRAMES

The cabinets shall have doors that follow the the standards of SAE J3058 Ambulance Interior Storage Compartment Integrity.

The sliding cabinet doors shall be framed with a T6- 6063 aluminum frame with specially designed negative angled grooves for the spring latched handles to grip onto for latching. The corners of the frames shall be double keyed for stability and strength. The frame shall be gasketed to prevent intrusion of liquids into the cabinets. The sliding doors shall be made of 1/4" polycarbonate in either a clear, grey or bronze finish as specified by the end user. The tail end of the doors shall have a T6-6063 aluminum stiffener that interlocks with the mating door to give additional strength against impact. The leading handle shall be spring loaded to give a self latching function with the door frame groove to prevent the doors from inadvertantly coming open. If the end user chooses to have the restocking feature, the frame will be hinged in a minimum of two locations and a seperate spring steel handle assembly shall be attached to the bottom of the cabinet to lock the frame in place when shut. This handle for unlatching and opening the restocking feature shall be accomplished without opening the sliding doors, from the outside of the cabinet.

Bidder Complies YES_____ NO_____

One (1) 69-58-0123 Sliding doors with latching handles Y___N___

Four (4) 69-60-0120 Door/Drawer Latch, Southco M1-64-8, 2IN S/S - Non-Locking-CN 10 Certified Y___N___

CABINET DOOR LATCHES - NON-LOCKING

Four (4) polished stainless steel non-locking Southco M1 Series flush pull latch(es) shall be installed in cabinet doors as indicated in the attached drawings.

Two (2) 69-60-0220 Door/Drawer Latch, Thumb Style, Chrome, Locking -NOT CN 10 Certified Y___N___

CABINET DOOR LATCHES - LOCKING

Two (2) thumb style locking raised trigger latch(es) with chrome finish shall be installed in cabinet doors as indicated in the attached drawings.

One (1) 71-10-0100 Oxygen System - General Y___N___

OXYGEN SYSTEM

This ambulance shall incorporate an on-board piped medical oxygen system in accordance with the guidelines put forth in KKK-A-1822, as currently amended.

The system shall consist of a supply cylinder (when indicated below), low pressure, electrically conductive (green) hose approved for medical oxygen, and self-sealing oxygen outlets as indicated below. Industrial or welding oxygen hose is not acceptable. Medical certified hose and components must be utilized throughout.

One (1) 71-12-0110 On-Board Oxygen Regulator, Manual, 50 psi Y___N___

OXYGEN REGULATOR

One (1) oxygen regulator(s) shall be provided and attached to the oxygen supply hose(s) provided. The regulator shall feature a chrome plated brass body with all brass high-pressure chamber, 3,000 psi maximum inlet pressure, internal reseating relief valve protecting against overpressurization, 2" diameter guage, foreign matter filter, neoprene diaphragm, DISS outlet, CGA-540 nut and nipple and UL listing.

One (1) 71-14-0150 On-Board Oxygen Cylinder Bracket, ZICO QR-MV STANDARD Y___N___

OXYGEN CYLINDER BRACKET

One (1) ZICO QR-MV oxygen cylinder bracket mounted on Uni-Strut track shall be provided and installed in the designated compartment.

One (1) 71-00-1975	Track, Unistrut for Oxygen Rack	Y___N___
One (1) 71-16-0100	Oxygen Cylinder Wrench (Standard)	Y___N___

OXYGEN CYLINDER WRENCH

A cast aluminum oxygen cylinder wrench shall be supplied and tethered to the compartment wall next to the oxygen cylinder brackets.

One (1) 71-20-0130	Oxygen Outlets, Ohio Style Quick Disconnect (1 in Action Area, 1 CS Wall)	Y___N___

OXYGEN OUTLET

One (1) self sealing Ohio style quick disconnect oxygen outlet will be installed in the action area, and one (1) will be installed on the curbside wall above the squad bench.

One (1) 71-50-0120	Vacuum System, On-Board w/o Ohio Style Outlet	Y___N___

VACUUM PUMP

An electric vacuum pump shall be installed in the streetside #2 compartment. This pump will be activated by a switch in the attendant's switch console. It will be protected from damage by shifting equipment by means of a fabricated expanded aluminum mesh guard.

One (1) 73-10-0100	IV Hangers, Cast Products Recessed in Ceiling	Y___N___

IV HANGERS

Two (2) Cast Products recessed aluminum fold down IV hangers shall be installed on the ceiling where indicated in the attached drawings. They must have rubber fold-down safety arms with Velcro straps. The base must be anchored to mounting plates welded to the roof structure.

One (1) 79-14-0184	Cot Mount, Stryker 6392 Performance Load with Inductive Charger & Floor Plate	Y___N___

COT MOUNT

Install a Stryker #6392 Performace-LOAD system with inductive charger and floor plate.

One (1) 79-14-0196	Center mount	Y___N___
One (1)	Decals, "Manufacture Decals" Logo	Y___N___

80-18-0600

One (1) Paint, Module, SIkkens - White (Standard) Y___N___
84-10-1001

BODY PAINT

The exterior of the top, sides, front and rear walls shall be painted with Sikkens White. Preparation of the body must follow the paint manufacturer's specifications and the painting must be done in a paint booth enclosure which has been specifically designed for such purpose, and meets Environmental Protection Agency requirements at the time.

All hardware and doors must be removed prior to painting. The doors must be painted at the same time as the remainder of the module to eliminate the potential for color differences. Any paint process that involves painting the doors while attached to the body will NOT be acceptable due to the incomplete coverage of paint in the hinge area of the jambs.

Prior to painting, all mounting holes for the door hardware, exterior lighting fixtures, vents, assist handles, etc., shall be made in the body. This will allow both primer and paint to cover the edges of the mounting holes and provide additional corrosion protection at these critical locations. Systems which cut mounting locations, or drill mounting screw holes after painting are NOT acceptable since they allow the potential exposure of raw aluminum after the paint process is complete. Use of an anti-corrosion material alone, which is applied after the painting process is complete, will NOT meet the requirements of this section.

The front, sides and rear of the module and the striping shall be covered by AkzoNobel (or equal) high quality automotive polyurethane acrylic paint, which is then to be wet sanded and buffed to a high gloss.

Current Service stripping and decal shall be done as current fleet.

One (1) Quick Clip Strap, Exterior Compartment (Standard) Y___N___
90-10-0100

STRETCHER STRAP

An adjustable nylon web tie down strap with quick release connectors will be installed against the back wall of a designated compartment for securing short boards, folding stretchers, or stair chairs. The strap shall be secured to the compartment wall with two (2) footman's loops.

One (1) Interior Safety Signs (Standard) Y___N___
90-14-0100

INTERIOR SAFETY SIGNAGE

Two (2) signs with the verbiage: "NO SMOKING - OXYGEN EQUIPPED" shall be installed in the vehicle. One (1) will be installed adjacent to the attendant's switch console, and the other shall be installed in a conspicuous location the cab.

Two (2) signs with the verbiage: "FASTEN SEAT BELTS" shall be installed in the vehicle. One (1) shall be installed in a conspicuous location in the patient compartment and one (1) shall be installed in a conspicuous location in the cab.

One (1) Owner's Manual / Equipment Packet / OEM Manual Y___N___
90-22-0100

OWNER'S MANUALS

The chassis manufacturer's operating and warranty manuals will be turned over to this agency upon delivery and acceptance.

A reference handbook, in a three-ring binder, providing guidelines for the operation, care, and maintenance of systems or components found in/on this ambulance will also be given to this agency at delivery and acceptance. This booklet will also contain: the name, address and phone number of the manufacturer; general, paint, structural and electrical system warranty statements; drawings of this vehicle; electrical system information and schematics; copies of the completed pre-delivery check-off sheet; any other pertinent information applying to the proper and safe operation of this vehicle.

One (1) Warranty, Ambulance Module Structure, Fifteen (15) Years Y___N___
98-00-0201

MODULE STRUCTURAL WARRANTY

The warranty terms on the ambulance module structure shall be for a term of fifteen (15) year. So called "lifetime" warranties are not acceptable unless they specifically identify in the warranty that they will be valid for at least fifteen (15) years.

One (1) Warranty, Ambulance Conversion Electrical, Limited Y___N___
98-00-0211

AMBULANCE CONVERSION ELECTRICAL WARRANTY

The warranty terms on the ambulance conversion electrical system shall be for a term of twelve (12) months or twelve thousand (12,000) miles from the date of delivery of the completed new custom module to the end user, regardless of subsequent ownership.

One (1) Warranty, Ambulance General Conversion, Twelve (12) Month, Unlimited Mileage Y___N___
98-00-0221

AMBULANCE GENERAL CONVERSION WARRANTY

The Manufacturer shall warrant to the original retail purchaser for an unlimited mileage for a period of twelve (12) months from the date of delivery, that this product shall be free of substantial defects in materials and workmanship, which are attributable to manufacturer and which arise during the course of normal use and service.

One (1) Warranty, Cabinet Construction, Limited Lifetime Y___N___
98-00-0231

AMBULANCE CABINET CONSTRUCTION WARRANTY

The Manufacturer shall provide a 12 month general warranty on the vehicle conversion, which covers defective parts and/or components, improper choice of materials, parts and/or components, improper design or engineering and poor or improper workmanship or quality control techniques. Upon expiration of the attached twelve (12) months standard conversion vehicle warranty. The following parts or components of the patient compartment cabinets of the vehicle will remain free from defects in material and workmanship:

- That the wood or non-wood material used for the construction of the cabinets shall not delaminate.
- That the wooden dowels used for the construction of the cabinets shall not allow the cabinet sections to separate.

This Cabinet Construction Warranty commences upon the expiration of the original twelve (12) months standard conversion vehicle warranty and continues for the lifetime of the vehicle for the original owner on the original chassis. For the purpose of the Limited Lifetime Cabinet Construction Warranty, a lifetime is defined by the Manufacturer as; 10 years from the expiration of the original twelve (12) month standard conversion vehicle warranty for only the only original retail purchaser/owner.

One (1) Warranty, Modular Body Paint, Five (5) Years Y___N___
98-00-0302

MODULAR BODY PAINT WARRANTY

The ambulance manufacturer in conjunction with the paint supplier shall warrant to the original retail purchaser under normal use and service, each new modular body paint job is free of all material and workmanship defects for a prorated period of five (5) years from the date of delivery.

The warranty provided herein shall cover and extend to the following properties of the paint system according to the warranty schedule:

- Loss of adhesion of the paint system resulting in rust
- Cracking of paint system
- Fading or loss of gloss