



BRUNSWICK COUNTY EMERGENCY SERVICES

Request for Ambulance Bid Proposal

Bids will be reviewed December 4TH at 3:00 PM

OCTOBER 26, 2015

BRUNSWICK COUNTY EMERGENCY SERVICES
3325 Old Ocean Highway
PO Box 249
Bolivia NC 28422

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Brunswick County Emergency Services is soliciting competitive, sealed bids from qualified vendors for the purchase of One (1), Type III, Class One (4 x 2), Configuration of An ambulance for *Brunswick County, 3325 Old Ocean Hwy Bolivia, N.C. 28422*. *Brunswick County* reserves the right to reject any and/or all bids. *Brunswick County* also reserves the right to accept the bid most advantageous to *Brunswick County*

The attached specification defines a heavy-duty, commercial emergency medical vehicle, built to withstand adverse driving conditions. The vehicle shall meet or exceed the latest revision to federal specification KKK-A-1822, Federal Motor Vehicle Safety Standards (FMVS.), National Truck Equipment Association (NTEA) Ambulance Manufacturer's Division (AMD) standards and Ford Qualified Vehicle Modifier (QVM) Program Truck Guidelines ("even though the specifications describe an ambulance other than a Ford")

This invitation is extended to all qualified vendors/manufacturers that is specifically in the business of building emergency medical vehicles and/or equipment.

This invitation is issued by:

Brunswick County Emergency Services
3325 Old Ocean Hwy
Bolivia, N.C. 28422

Email: phillip.britt@brunswickcountync.gov

Contact Person: Phillip Britt

SPECIAL CONDITIONS

The primary manufacturer shall be ISO 9001:2000 certified.

The primary manufacturer shall employ full time a Quality Control Manager whose primary function is to monitor quality. No Exceptions.

Bid prices shall be valid for one year (365) days. In the unforeseen circumstance that this agency requires the primary manufacturer to extend pricing requirement; then it will be at the discretion of this agency to request in writing from the primary manufacturer any deviation in prices quoted. The primary manufacturer may revise pricing and state in writing reasons for any change and certify the amended pricing for sixty (60) additional days.

BIDS WILL BE REVIEWED DECEMBER 4TH 2015 AT 3:00 PM

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BID EVALUATION - Bids received shall be evaluated by the Purchaser. This evaluation will be based on the following:

- Completeness of the proposal
- Manufacturing and Delivery schedule
- Primary manufacturer's demonstrated capabilities and qualifications
- Primary manufacturer's past performance on similar Bid Proposals
- Primary manufacturer's maintainability and recommendations
- Primary manufacturer's logistical and service support

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

Internal testing performed and certified for a primary manufacturer will not be considered by this agency.

CONTRACT AWARD - The Purchaser reserves the right to increase the number of vehicles or equipment specified under this contract. If awarded, the primary manufacturer agrees that additional agencies may purchase under the same terms and prices afforded by any contract arising from the bid award, unless prohibited by law.

The purchaser has the right to waive any informalities, irregularities, and technicalities in procedure.

WARRANTY - This agency is concerned with the ability of the primary manufacturer to warrant the conversion after delivery. Each manufacturer will provide information that includes the length of warranty and items covered. Also, each primary manufacturer will supply the name and phone number of a contact person in the event this agency requires clarification of the submitted warranty documents. The primary manufacturer will provide the location of the closest approved warranty center. Indicate to this agency, in writing, to be included with this proposal; the process to initiate and file a warranty claim.

DELIVERY - The primary manufacturer will provide in writing to accompany this document a proposed delivery time. The delivery time proposal will include the transit time of the finished vehicle.

FAMILIARITY WITH LAWS - The primary manufacturer will be familiar with all Federal, State and Local laws, ordinance, code rules and regulations that may in any way effect the work. Ignorance on the part of the primary manufacturer is not acceptable.

PRE-CONSTRUCTION CONFERENCE - The successful primary manufacturer shall be required to hold a pre-construction conference with representatives of this agency to finalize construction details. In the event it is deemed necessary by both parties that the conference be held at a location other than at this agency; the following shall occur. The primary manufacturer will provide adequate transportation, lodging, and meals for two (2) designated personnel from this agency. Further, if the location is in an excess of three hundred (300) miles from this agencies location, the transportation shall be by a commercial air carrier. Private or corporate aircraft may not be used.

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DRAWINGS - The primary manufacturer shall provide a set of drawings that accurately depict the vehicle as specified. The drawings will show all exterior and interior planes with dimensions. Failure to comply will be deemed non-responsive. Y___N___

ANTI-COLLUSION STATEMENT - By signing this bid, the primary manufacturer agrees that this bid is made without any understanding, agreement or connection with any other person, firm or corporation making a bid for the same purpose and this bid is in all respects fair and without collusion or fraud.

Bidder Complies YES_____ NO_____

Warranty - Documentation

The bidder's proposal packet shall include copies of all warranties listed in these following detailed specifications. The minimum acceptable required warranties are: Conversion Warranty, Electrical Warranty, Modular Structural Warranty and Paint Warranty. The bidder shall include a copy of these warranties within the proposal package. If the bidder does not include a copy of the warranties, the bid

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Manufacturer shall provide National Standard Testing in which they are using for the testing and production of their product Y__N__

Warranty - Module Structural

Y__N__

The manufacturer shall provide a "Lifetime" Limited Modular Structural warranty. "Lifetime", a lifetime is defined as 25 years from the date of original retail owner's purchase/in-service date from the manufacturer or the period of time the ambulance is in continuous front line service with the original purchaser. Terms and condition of the Limited Modular warranty shall be per the manufacturer's published warranty documentation.

Warranty - Electrical, Standard System

Y__N__

The manufacturer shall provide a detailed explanation of their electrical warranty.

Warranty - Paint

The manufacturer shall provide a detailed explanation of their warranty on painted products.

Warranty - Conversion

Y__N__

The manufacturer shall provide a Limited "Conversion" warranty. The "Conversion" Warranty shall be for a period of at least 2 years or 36,000 miles and must be supplied in writing from manufacturer. Terms and condition of the Limited Conversion warranty shall be per the manufacturer's published warranty documentation.

== Chevy G4500, 159" WB - 170" Bodies - 2014.012 06/27/14 ==

Y__N__

CHASSIS REQUIREMENTS

2015 Chevrolet G4500 Gas, 159" WB 14,200 GVWR

Y__N__

Y__N__

CHROME APPEARANCE PACKAGE: The G4500 Chassis shall be equipped OEM from General Motors with the following, but not limited to:
Horns, Dual Electric
Grille: Chrome

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Wheel Covers: OEM Gray, center cap
Front Chromed Bumper

Front Suspension Upgrade - Timbren, Rubber Springs, G4500

Y__N__

QUALITY MANAGEMENT SYSTEM REGISTERED; The manufacturer shall have a registration for ISO 9001: 2008 for their Quality Management System (QMS). The QMS provides establishment, documentation, implementation, maintenance and improvement of management systems that impact the final quality of the product. Registration of the vendor's QMS demonstrates an enduring commitment to quality, a sharp focus on the customer, and robust communication throughout the product process chain to the customer. This registration provides for oversight with routine inspection of the QMS to maintain certification status. Proof of certification shall be readily available upon demand. Proof of Certification shall be provided with bid during initial bid process

FRONT SUSPENSION ENHANCEMENT

A Timbren SES (Suspension Enhancement System) shall be installed on the front axle. The kit shall be installed to the manufacturer's specifications. AEON Hollow Rubber Springs are the backbone of hundreds of load-handling suspension applications designed by Timbren engineers.

Electronic Throttle -Intermotive GM and E-series 2013 and up Chassis

Y__N__

ENGINE THROTTLE

The engine shall be programmed via an Intermotive electronic throttle controller, enabling the engine RPM to increase automatically to 1500 R.P.M. when the vehicle is placed in Park and emergency brake engaged.

Block Heater - With OEM Plug

Y__N__

ENGINE BLOCK HEATER

The chassis shall include a 110VAC powered engine block heater. The block heater shall have an OEM plug located in the engine compartment.

Mirrors - Velvac 2020XG Black, Heated/Remote Mirrors, Chevy CG

Y__N__

OUTSIDE REAR VIEW MIRRORS

The chassis shall be fitted with Velvac 2020XG mirrors. These mirrors are direct bolt on replacements for the OEM mirrors. The mirrors shall have black housings, heated glass and remote control adjustment for the main

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glass. The separate convex section in the lower part of the housing shall be manually adjustable. Heater switch and adjustment controls shall be located on the driver door sail panel.

CAB INTERIOR FEATURES

Cab Insulation - Thinsulate in Cab Ceiling Y__N__

- INSULATION, CAB CEILING - The manufacturer shall install a layer of insulation between the OEM head liner and the cab roof to reduce noise.

SS Wheel Simulators - Phoenix Brand w/ Lug Nut covers, Chevy CG, Y__N__

WHEEL COVERS

The vehicle shall be equipped with four (4) outside wheel Phoenix polished stainless steel wheel inserts. These inserts shall be designed in such a way that they are removable without removing any of the OEM lug nuts. The inserts will include braided stainless steel fill tubes.

Increase cab recess to 14" Y__N__

The Type III module shall be a 170"L x 96"W walk-through conversion for a Chevrolet G4500 Cutaway.

Overall Vehicle Dimensions:

- Length = 267"
- Width = 100"
- Height = 105.5"

Exterior Module Dimensions (inches):

- Length = 170"
- Width = 96"
- Height = 88"

Custom Cab Recess of 14" Y__N__

There shall be a recessed bulkhead on the cab side of the module to insure that the driver and passenger seats have full seat travel and that the incline adjustment on the seats is capable of providing the driver and passenger with a comfortable seating position.

Materials & Type III Y__N__

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MATERIALS

The entire modular structure and all integral body parts and pieces shall be manufactured from aluminum. The extrusion shall be fully enclosed with vertical center supports.

Fabricated gusset supports shall be added for extreme structural integrity.

Floor Assembly	Composite Sub Floor	PVC High Density Foam Aluminum
Front Assembly	Sheet Tubing Plate	All Aluminum
Rear Assembly	Sheet Tubing Plate	All Aluminum
Side Assembly	Sheet Tubing Angle Bar	All Aluminum
Seamless Door Assembly	Sheet Door Frame	All Aluminum

Flooring shall be constructed of aluminum and be free of any wood construction. Flooring shall also contain insulation to decrease noises emitted by the highway.

INTERIOR CONSTRUCTION

The interior cabinet construction shall be all aluminum and will include the following aluminum materials:

All upper band cabinet door frames shall consist of rigid, heavy duty, extruded aluminum glass frame. The rigid design of the frame extrusions and corner assemblies on the restocking doors will reduce twisting of the frame structure.

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Module Construction

Module Undercoating

Y__N__

EXTERIOR MODULE CONSTRUCTION

The entire exterior module shall be constructed of corrosion resistant sheet aluminum. The module side wall, front and rear wall panels shall each be CNC cut and machine formed to provide a seamless sidewall.

Fuel Fill - Standard Pocket -Square

Y__N__

FUEL FILL

The vehicle shall be equipped with a cast aluminum fuel fill bezel.

Y__N__

Module Access

Y__N__

MODULE ACCESS

The module shall include one side entry door on the curb side of the module, and one set of double doors for entry to the rear of the module. The curb side door shall provide a clear opening that is approximately 30" W x 70"H. The rear double doors

Entry Doors - Hidden Hinge, Seal on Door ,W/Fail Safe Latching

Y__N__

MODULE ENTRANCE DOORS

The three entrance doors will have the Fail Safe Latching Mechanisms. In the event of an accident where the door linkage and/or the rotary door handle(s) has been damaged to the point where the latching mechanisms do not respond to the entrance door handles, this will allow you to override the latching mechanisms to exit the vehicle.

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Weather stripping to be secured to the door so that the latching system is protected from the elements.

Door Restraints - Side, Heavy Duty Gas Spring Hold Opens

Y__N__

The curbside entrance door shall incorporate a Heavy Duty gas filled spring hold open device capable of holding the door open at 90 degrees. Due to the extreme stresses exerted on the door at the hold open attachment point, the attachment bolts must be anchored to the door using 1/4" x 20 stainless steel bolts through nut inserts that are secured into a support gusset welded into the upper corner of the door structure.

Door Flashers - (1) Whelen Red LED Strip Light, Specify Location

Y__N__

DOOR FLASHERS

This vehicle shall be equipped with (1) Whelen Red LED Strip Light with an internal flasher .

Power Door Locks - Module Entry Doors,W/Hidden Switch

Y__N__

POWER LOCKS - ENTRY DOOR

This vehicle shall be equipped with power door locks. They shall be for patient access doors only, and shall lock and unlock manually with the switch at each patient access door or cab door lock. There shall also be a hidden license frame switch for the unlock function. This option does not include a wireless remote.

Note: Hidden switch can be moved to different location.

Step Well, Side Entry - Increased Depth, Diamond Plate and Grip Strut Step

Y__N__

SIDE DOOR STEP

Increase the depth of stepwell inboard as far as sub structure permits. Side surfaces to be Diamond Plate. Step surface to be a combination of NFPA Diamond Plate and removable 9" Grip Strut insert. The Diamond Plate section of the floor to be supported with rigid foam floor insulation in the same manner as the module floor.

Y__N__

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MODULE HEAD ROOM: The module shall not be less than seventy two (72) inches actual measured headroom. The measurement shall be taken from the patient compartment floor to the ceiling panels. Y__N__

Window - Rear Entry Doors, 18X24, Fixed - Standard Glass Y__N__

Rear window to be tinted glass.

Cab to Module Attachment, Type III Y__N__

CAB TO MODULE

Manufacturer to provide documentation of the process used to attach cab to the module .

Rear Bumper - Recessed 9" Pocket, Flip-up Y__N__

BUMPER AND REAR STEP

The rear bumper frame shall be all steel, welded construction. The bumper shall be bolted to the OEM chassis frame rails.

There shall be a full width, one piece polished aluminum diamond plate kick plate installed above the rear step bumper and below the rear entry doors. The panel to contain sealant to keep water from entering behind panel.

All steel rear bumper frame members to include isolation material between the steel frame and the aluminum bumper pods. Frame to have rubberized Scorpion polyurethane coating applied to prevent rust.

To support lifting safety and provide optimum cot loading space at the rear doors of the vehicle, the rear bumper shall be a flip up that is as wide as the rear load doors. There shall be eye beam constructed skid plates with tow eyes mounted as part of the frame of the bumper.

Whisper Quiet - Sound Dampening Y__N__

INSULATION

The module interior walls, roof and doors shall be insulated to enhance the interior environment and minimize the conduction of heat, cold and external noise from entering the module. The wall and ceiling insulation shall be a non-settling, 2 inch thick, self-extinguishing polystyrene foam planking.

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Running Boards - Diamond Plate, CG Series

Y__N__

RUNNING BOARDS

Running boards shall be provided on both sides of the vehicle. The running board shall be made of .125 inch NFPA compliant aluminum diamond plate and will be 8 inches wide in front and flared out to provide a 14 inch width at the rear. Diamond plate splash guards shall also be provided measuring approximately 8 inches wide x 14 inches high and shall be welded to the ends of the running boards. This assembly shall be securely mounted to the cab with stainless steel 1/4 inch x 20 hex head bolts. ECK brand material must be applied to prevent electrolysis at mounting locations.

Drip Rails

Y__N__

DRIP RAILS

Drip rails shall be extruded, bright anodized aluminum, running full length of module at the top sides and rear. Drip rails shall also be installed over each exterior compartment and directly over the rear entrance doors. All drip rails shall be attached with 3M VHB Urethane bonding tape, which will withstand exposure to the elements and still be replaceable. Mechanical type fasteners that can cause paint electrolysis shall not be acceptable.

Delete Walk/Crawl Through Door

Y__N__

There shall not be a door (sliding or hinged) separating the cab and module.

MODULE COMPARTMENTS

EXTERIOR COMPARTMENT CONSTRUCTION

Compartment Door, Gas Struts

The ambulance shall be equipped with Heavy Duty gas strut hold opens.

The struts will be installed on each exterior compartment door.

Exterior compartment doors to open to 90+ degrees.

Y__N__

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Compartment Door Panel Mounting Screws

Y___N___

Y___N___

LEFT FRONT COMPARTMENT (M-1 Lower): This compartment shall be located in the left front corner of the modular body. The minimum compartment dimensions shall be 79.00" high x 15.25" wide x 22.0" deep

Left Front Compartment Streetside Light 6" Round Surface Mnt W/Switch, STD in all outside module compartments.

Y___N___

Y___N___

Door Open Indicators

The magnetic proximity switches located at the top of the door between the jamb and the door frame will activate a door open indicator on the driver's control panel and activate the corresponding Interior compartment light or other warning device that alerts driver that a compartment is open on the outside of the unit.

Y___N___

Y___N___

Exterior Compartment Shelving and Unistrut

EXTERIOR COMPARTMENT SHELVING

All shelving Unistrut shall be welded to the walls prior to any compartment wall finish. Where specified, exterior adjustable shelves shall be box pan formed of a minimum .125 inch Aluminum Diamond Plate and corners shall be welded. Shelves shall be infinitely adjustable, and securely mounted to heavy gauge aluminum Unistrut track.

Y___N___

Y_

Compartment Shelving - Diamond Plate

Where specified, exterior adjustable shelves shall be box pan formed of a minimum .125 inch Aluminum Diamond Plate and corners shall be welded. Shelves shall be infinitely adjustable, and securely mounted to heavy gauge aluminum Unistrut track.

Y___N___

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Electrical Storage - Front Compartment Street side

Y__N__

Recessed into the bulkhead side of compartment shall be an enclosed area for the installation of miscellaneous electrical components. The aluminum cover for this area to be installed with 'J' molding. The 'J' molding to be full length of panel on bottom and inboard side. Outboard side of panel to be secured with mechanical fasteners.

STREETSIDE MIDDLE COMPARTMENT: This compartment is located adjacent and rearward to the left front compartment. The minimum compartment dimensions shall be 33.0" High x 44 "Wide x 20.25" Deep.

STREETSIDE MIDDLE COMPARTMENT shall be directly behind the streetside front compartment and shall have double doors and one shelf on Unistrut track. This compartment shall be for equipment storage and be per listed size.

Y__N__

LEFT REAR COMPARTMENT (M-3): This compartment shall be located in the left rear corner of the body. The minimum compartment dimensions shall be 22 " High x 27.25" Wide x 20.25" Deep. This compartment does not have a shelf.

Y__N__

RIGHT REAR COMPARTMENT: This compartment shall be located in the right rear corner of the body. The minimum compartment dimensions shall be 79 13/16" High x 22 5/8" Wide x 21" deep. Exterior compartment shall be located at the curbside rear of the module. The compartment shall have a single door. This compartment shall be configured primarily for the vertical storage of backboards and other miscellaneous equipment. The manufacturer shall install a louvered vent in the upper left wall of the compartment to enable the door to close without added compression. This compartment shall be per the size and configuration shown in the attached prints.

Y__N__

RETAINER STRAP: One two inch wide webbed restraint strap shall be supplied in the compartment. The strap shall employ a metal buckle system with a push button release. The strap is to be fastened to the compartment walls with a two inch footman's loop. The fastener is not to be fastened through the webbing material.

Y__N__

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RIGHT FRONT COMPARTMENT CURBSIDE: This compartment shall be located in the right front corner of the module body. The minimum compartment dimensions shall be 55 5/8" High by 24" Wide. The compartment door shall provide direct outside access into the right front advanced life support equipment storage area.

RIGHT FRONT BATTERY COMPARTMENT CURBSIDE: This compartment shall be located in the lower right front corner of the module body. The minimum jamb pass through dimensions shall be 13 5/8" High x 25 1/4" Wide x 21.4" Deep. The 2-battery tray shall accommodate two group 31 series batteries and be mounted on full extension slides with a 250 pound per pair rating.

MODULE INTERIOR

INTERIOR CABINET CONSTRUCTION

All cabinets shall be independently box pan formed of .090 aluminum, utilizing welded, shatter proof construction for maximum safety. No wood products shall be used. Cabinets shall be constructed as independent modular units completely assembled outside the vehicle then secured to the module structure, thereby enhancing the overall structural integrity of the module. Cabinets created or assembled in the vehicle as a dependent part of the module structure shall not be acceptable due to their inability to enhance the overall structural integrity of the module.

The cabinet door frames shall consist of heavy-duty, extruded aluminum glass track frame fastened together as a structure independent of the cabinet. All frame corners shall be mitered and assembled with extruded aluminum corner braces and epoxy. The frames shall be constructed in a manner that allows for disassembly and replacement of the sliding Acrylic doors. All sliding cabinet doors shall be 3/16 inch Acrylic set in felt lined tracks that require no adjustment. Each piece of Acrylic glass shall have full length extruded aluminum handles.

The frames of the upper band cabinets shall be hinged with full length, piano hinge. The frame shall be hinged on top and be equipped with pneumatic hold opens on each side, with one (1) interior positive slam latch. This shall enable the entire face frame with sliding Acrylic doors to be opened for easier cleaning and restocking of the cabinets. The gas shocks shall be of sufficient strength to automatically lift the cabinet door frame without any aid and hold in the open position without any other device is in motion.

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INTERIOR ADJUSTABLE SHELVES

Y__N__

INTERIOR ADJUSTABLE SHELVES

Where specified, interior shelves shall be made of anodized aluminum. The shelves shall be infinitely adjustable, and bolt into position to prevent rattling. Shelf bottoms shall be lined with non-hygroscopic removable shelf liner. The front edge of the shelf shall be covered with a push on plastic trim to prevent chafing.

INTERIOR TRIM

Interior Trim

Y__N__

All cabinet and wall panel aluminum trim including shall be Gray anodized. All protective corner trim shall be Opaque and will include a matching domed end cap.

Y__N__

HEADLINER

Ceiling Medical Device Rail

Y__N__

White LED Strip Lights, Ceiling Medical Device Rail.

Y__N__

LED STRIP LIGHTING

White LED strip lights shall be installed from the upper bulkhead area to the rear of the module stopping approximately 12 inches from the rear door header area on both sides. Includes an 'On/Off' switch at the rear switch panel, 'On' with module.

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Red/Amber LED Turn/Brake Strip Lights, Ceiling Medical Device Rail.

Y__N__

- Red/Amber LED strip lights shall be installed in the Ceiling Medical Device Rail on both sides at the rear. Total length on each side to be 12". The lights shall be activated from the vehicle turn signals or brake light circuit to inform personnel in patient compartment when the vehicle is turning and braking.

Y__N__

FLOORING

Aluminum Floor/Wall Cove Moulding.

Y__N__

Seams at perpendicular floor and cabinet intersections will be finished with an aluminum cove moulding trim. The seams where cabinets meet floor will be sealed with a caulking sealant / adhesive before installing the aluminum cove moulding.

Curbside Stainless Steel Threshold,4" wide, W/Safety Walk Anti-Skid Tape

Y__N__

There shall be a 4" wide 14 gauge stainless steel threshold with anti-skid tape at the curbside entry door. The threshold will be installed with nonslip material in a manner that provides a permanently stable attachment and full perimeter seal to prevent fluid borne pathogen contamination and enhances the cleaning process.

Y__N__

HEAD BUMPERS

There shall be head bumpers located over the module to cab walk-through, on the front of the environmental cabinet, across upper rear curbside and streetside exterior compartment wall. These cushions shall be 1 inch high density flame retardant foam cushions covered with heavy grade color coordinated vinyl. The side entry door header shall have a vinyl covered foam padded cushion spanning the full width and height of the header wall above the door. The rear entry door header shall have a 2" high density flame retardant vinyl covered cushion spanning the full width and height of the header wall above the doors.

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BACKRESTS

All of the backrests and seat cushions shall be constructed with 2 inch thick, high density fire retardant foam covered with a heavy grade color coordinated vinyl. The lower band cushions and backrests shall be thermal vacuum formed automotive vinyl. The cushions shall be backed with 10mm PVC board. Plywood or other porous materials shall not be acceptable for cushion backs. Backrest and seat cushions shall be securely fastened yet easily removable for cleaning. All other cushions shall be attached with Christmas tree type automotive blind fasteners.

Rear Entry Door Grab Bars - "L" Bars, 16" Anti-Microbial

Y__N__

GRAB RAILS

Each module rear entry door shall be equipped with a Anti-Microbial stainless steel "L" shaped grab bar. These bars shall measure approximately 16" wide by 24" high, and shall have a Clear Anti-Microbial coating. The bars shall be oriented so that the horizontal portion of the "L" extends along the lower edge of the window. The vertical portion of the "L", shall be oriented toward the hinge side of the doors, and shall extend upward to a mount point above the upper edge of the window. All fasteners for the bars MUST engage internal door structure.

Side Entry Door Grab Bars - "L" Bar - 19" Anti-Microbial

Y__N__

The module's side entry door shall be equipped with a Anti-Microbial stainless steel "L" shaped grab bar. This bar shall measure approximately 19" wide by 24" high, and shall have a Clear Anti-Microbial coating. The bar shall be oriented so that the horizontal portion of the "L" extends along the lower edge of the window. The vertical portion of the "L", shall be oriented toward the hinge side of the doors, and shall extend upward to a mount point above the upper edge of the window. All fasteners for the bar MUST engage internal door structure

Ceiling Grab Rail - Center 108" Anti-Microbial

Y__N__

There shall be a handicap style stainless steel grab rail securely mounted to the ceiling. All fasteners for the rail MUST engage structural framing in the ceiling. The rail shall be approximately 108" long and have a Clear Anti-Microbial coating. The rail shall be mounted lengthwise and as close to center as possible over the primary cot location.

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PLASMA HANGER

Y__N__

PLASMA HANGER

IV Hangers

Y__N__

There shall be ceiling mounted IV hangers installed in customer specified locations. These flush mount hangers shall accommodate 2 bags and shall be equipped with stabilizer straps. The hangers shall be mounted so that in the event of a forward collision, the hangers will fold up upon impact.

Quantity (2)

Y__N__

INTERIOR STREETSIDE - LEFT STACK and BULKHEAD

Y__N__

LEFT STACK AREA

Upper Bulkhead Cabinet - Double Doors

Y__N__

For access to the electrical components, the upper bulkhead cabinet shall have double hinged Kydex Thermoplastic laminate or multi-spec covered doors with locking latch on the right hand door and center mullion on the left hand door.

Left Stack - Storage Area

Y__N__

A two section vertical cabinet shall be provided behind the attendant seat on the streetside forward corner on a 45 degree bevel that includes the access doors to the cabinet. The lower cabinet door shall be aluminum with plastic laminate and the upper cabinet shall be a Lexan door with full perimeter extruded aluminum frame.

INTERIOR STREETSIDE - ACTION AREA

Y__N__

ACTION AREA WALL

Medical Device Rail - Action Area Wall

Y__N__

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An action wall Medical Device rail system shall be installed on the streetside wall. Each side of the track will have a solid surface accent stripe to match the action wall counter. The track system to be surface mounted and run the entire length of the action wall from the #1 compartment to the CPR seat.

The medical device rail allows for provisions for the standard (2) Oxygen Outlets, Oxygen Solenoid Valve, Suction Regulator, 12V Outlet and 110V Outlet.

Cabinets - Upper Left Standard Configuration

Y__N__

There shall be (2) cabinets located over the action area and. The forward upper left and the rearward upper left cabinets to include (1) adjustable shelf in each cabinet. Both cabinet fronts shall have sliding doors and have restocking feature.

The attendant switch panel and environmental controls shall be built into a separate 6" high section below the cabinet and tilted slightly down for ease of accessibility to the attendant..

INTERIOR STREETSIDE - REAR AREA

Y__N__

STREETSIDE REAR AREA

Streetside Squad Bench, Seating Capacity (3), One Hinged Lid

Y__N__

A squad bench shall be provided on the street side of the vehicle with seating capacity for three people. The bench cushions shall be 2 inch thick high density flame retardant foam, covered with high grade color coordinated vinyl. The seat cushion shall be split with the rearward cushion fixed in place and the forward cushion on a hinged lid to provide access for storage underneath. The forward lid shall open to not less than 80 degrees, have pneumatic lifting supports on each side and will be held closed with a positive latch. The lid shall be constructed of durable lightweight materials. No wood products shall be used. The interior of the squad bench shall be completely box pan formed aluminum, sealed and painted to create a seamless interior for easy and thorough cleaning and disinfecting.

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Streetside Squad Bench Restraints, On Face Of Squad Bench

Y__N__

A squad bench shall be provided on the street side of the vehicle with seating capacity for three people. The bench cushions shall be 2 inch thick high density flame retardant foam, covered with high grade color coordinated vinyl. The seat cushion shall be split with the rearward cushion fixed in place and the forward cushion on a hinged lid to provide access for storage underneath. The forward lid shall open to not less than 80 degrees, have pneumatic lifting supports on each side and will be held closed with a positive latch. The lid shall be constructed of durable lightweight materials. No wood products shall be used. The interior of the squad bench shall be completely box pan formed aluminum, sealed and painted to create a seamless interior for easy and thorough cleaning and disinfecting.

Cabinet - Upper Streetside Squad Bench, 12" H Non-KKK Compliant

Y__N__

There shall be a cabinet located above the streetside squad bench. The cabinet will be approximately 8-1/2"H x 12"D and will the same length as the squad bench. The cabinet shall be divided into two (2) separate sections by a fixed center divider. Each section will have sliding Acrylic doors and restocking feature.

The distance between the top of the squad bench cushion to the bottom of the cabinet cushion will not be in compliance with KKK requirements for head clearance.

INTERIOR CABINETS- SQUAD BENCH AREA

Y__N__

SQUAD BENCH AREA

Curbside Squad Bench - Seating Capacity (3), Two Piece Hinged Lid

Y__N__

A squad bench shall be provided on the curbside of the vehicle with seating capacity for three people. The bench cushions shall be 2 inch thick high density flame retardant foam, covered with high grade color coordinated vinyl. There shall be a two piece lid hinged for internal storage, and shall open to not less than 80 degrees, have pneumatic lifting supports on each side and will be held closed with positive latches. The lid shall be constructed of durable lightweight materials. No wood products shall be used. The interior of the squad bench shall be completely box pan formed aluminum, sealed and painted to create a seamless interior for easy and thorough cleaning and disinfecting.

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Seat Belts, Squad Bench - Standard 2-Point

Y__N__

The manufacturer shall provide three sets of self-retracting, auto lock style seat belts conforming to federal regulation mounted along the curbside wall above the squad bench.

Restraint Belts, Squad Bench

Y__N__

The manufacturer shall provide a minimum of three restraint strap receivers on the face of the squad bench that work in conjunction with the squad bench seat belts for securing a patient lying on the squad bench.

Medical Device Rail - Squad Bench

Y__N__

An action wall Medical Device Rail system shall be installed on the streetside wall. Each side of the track will have a solid surface accent stripe to match the action wall counter. The track system to be surface mounted. The medical device rail allows for provisions for the standard Oxygen Outlet and Ceiling Light Timer.

Latches, Lids - Squad Bench

Y__N__

The squad bench shall include (2) recessed black latches to secure the squad bench lids when in the down position.

Utility Net - Head of Squad Bench On street and curbside benches, (BLACK NET)

Y__N__

The module shall include a utility net located at the head of the squad bench. The net shall be secured to the ceiling and curbside wall with aircraft style hardware to allow the net to be removed if necessary. The aircraft style hardware shall be securely mounted to structural tubing in the side wall at the side entry door and to a 1/4" plate welded between the frame member in the ceiling. Hardware at the wall and ceiling attachment points must be fastened with 1/4-20 stainless steel 100 degree flat head machine screws into threaded inserts.

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Cabinet - Upper Squad Bench, 12"H Non-KKK Compliant

Y__N__

There shall be a cabinet located above the squad bench. The cabinet will be approximately 12"H x 8 1/2"D and will the same length as the squad bench. The cabinet shall be divided into two (2) separate sections by a fixed center divider. Each section will have sliding Acrylic doors and restocking feature. The distance between the top of the squad bench cushion to the bottom of the cabinet cushion will not be in compliance with KKK requirements for head clearance.

Glove Butler (3) Total - Over Curbside Entry, Drop down Door

Y__N__

There shall be (3) Glove Butler glove boxes installed above the side module entrance door inside a cabinet with drop down door and (2) locking latches. Door to be [Kydex](#) Thermoplastic or multi-spec covered and bottom hinged to tip out for restocking. Access holes to be cut in door for glove removal.

INTERIOR CURBSIDE - RIGHT STACK STORAGE

Y__N__

CURBSIDE RIGHT STACK STORAGE

Right Stack - Upper Heater-A/C Unit, Standard Configuration

Y__N__

There shall be a heat A/C unit located at the top of the right stack/ALS cabinet. Conditioned air shall be distributed through six vents evenly spaced down the full length of the ceiling. There shall be a floor to ceiling plenum with intake vents of sufficient size to allow recirculation of the conditioned air.

No lower right stack als doors

Y__N__

ATTENDANT SEAT

Y__N__

Attendant Seat - EVS Vac Form, 3-Point Belt, Swivel Base

Y__N__

The patient compartment's rear facing seat shall be a high-back EVS vacuum formed automotive style captain's chair with 3 point seat belt and upholstered with a color coordinated, heavy grade vinyl. The ambulance manufacturers logo

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shall be embedded in the back rest of the seat. This seat, positioned at the head of cot shall provide easy access to all of the action wall controls and outlets. This seat shall be mounted on an EVS188 swivel base and will have full 360 degree swivel and 6 inches of travel.

INTERIOR

Squad Bench & Lower Left, 4 Inch Brushed Stainless Kickpanels

Y__N__

There shall be a stainless steel kick panel on the face of the streetside lower left wall and curbside squad bench. The kick panel shall be approximately 4 inches high and shall run the full length of the squad bench and lower left wall.

General Wiring - General Harness Standard

Y__N__

GENERAL WIRING

All added body and chassis electrical equipment shall be served by circuits separate and distinct from the chassis circuits. Wire harnesses will be built in accordance with federal guidelines and will be compliant with KKK specifications. All splices will be soldered and covered with adhesive lined heat shrinkable tubing for a watertight seal. The wiring shall be color coded, circuit numbered, and identification every 6 inches and correspondence with the vehicle schematics. The harnesses shall include factory installed plugs/receptacles for standard fixture installation and for common add on type devices for easy disassembly and replacement.

The vehicle shall be equipped with magnetic proximity switches on each entry and compartment door. The switches shall be wired to activate the individual compartment lighting associated with the individual compartment switch and the door open warning light mounted in the driver's control console.

DOCUMENTATION

Two complete sets of detailed wiring schematics (As Built) shall be provided for ease in trouble shooting. In addition, a detailed wire harness list shall be provided showing circuit numbers and functions. When optional electrical devices or systems are ordered, additional corresponding schematics shall accompany those options.

Located in the owners manual shall be a package of relevant electrical power distribution drawings. The drawings shall be inserted in a protective holder that shall include all of the "As Built" drawings that correspond to the specific vehicle being supplied. Generic, standard or manually modified drawings shall not be acceptable.

The manufacturer shall provide an amp load test certification. The documentation shall provide the end user with the vehicles operating load requirements and the units remaining reserve capacity.

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HARNES QUICK DISCONNECT

All wiring harnesses shall be connected to the power distribution utilizing insulated type harness plugs. These plugs shall have positive locking features and will be weather resistant. Access for disconnecting the harnesses from the cab to the module shall be provided and will be readily accessible.

ROUTING ACCESS

All cabinets at ceiling level shall be equipped with a removable back panel for access to the wiring harness. The backs shall be securely attached and will be designed to facilitate access and to support noise reduction.

Module wiring harnesses shall be routed below the roof radius extrusion and will be secured to the wall tubes. Cabinet backs and cushions to be removable for easy access to the harness's.

Antenna UHF/VHF - (2) Prewire,

Y__N__

The vehicle shall be equipped with two RG58AU low loss cables installed from the two-way radio cabinet to the ceiling of the module. Accessible by removing an interior light in the patient compartment ceiling. The interior light shall include an etched plastic label identifying the plate as the antenna access point. The cables shall route from the module roof to the lower section of the left stack/radio cabinet and be of sufficient length to allow routing to the cab console as an alternate radio installation location.

Two Way Radio Routing Path Cab to Module.

Y__N__

The vehicle shall be equipped with a wire routing path enabling the customer's radio installer to route radio cables from the radio cabinet to the chassis cab area or from the rear action area wall to the cab area. The routing path shall allow routing of radio cables with end connectors up to 2" x 3" without having to disconnect the cable/radio connector from the radio cable.

Two Way Radio Prewire, 12VDC Power and Ground

Y__N__

The vehicle shall be equipped with #8 gauge Red power and Black ground wiring will be labeled appropriately for future installation by a radio technician. The Black ground wire to be connected to a main ground point, the Red power wire to be left unconnected near a direct to battery connection point inside the power

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distribution cabinet. Both wires to route to the lower section of the Left Stack/Radio Cabinet and be of sufficient length to allow routing to the Cab Console as an alternate radio installation location. Wires to be labeled at both ends.

Radio Power - (2) 8 Gauge 12VDC Power/Ground

Y___N___

The vehicle shall be equipped with (2) additional #8 gauge power and ground wire pair. The Black ground wire to be connected to a main ground point, the Red power wire to be left unconnected near a direct to battery connection point inside the power distribution cabinet. Both wires to route to the lower section of the Left Stack/Radio Cabinet and be of sufficient length to allow routing to the Cab Console as an alternate radio installation location. Wires to be labeled at both ends

CLOCK

There shall be a digital clock located in the rear module. The clock shall provide continuous time and elapsed time for the convenience of the technicians working in the patient compartment.

ELECTRICAL 12 VOLT DC

Crct Pwr Accs.,Ign/Shrline,1-20 amp 12VDC to 2 locs,W/O,PD9130 chrgr

Y___N___

A circuit shall be furnished for charging all portable battery powered devices, i.e. suction units, hand lights, portable radios, etc. This circuit shall prevent discharge of chassis batteries by only permitting the charging of portable devices when the vehicle is either running or the optional battery conditioner is connected to shore power. Circuit breaker protection shall be provided and shall have a minimum 10 amp capacity, An additional tagged, identified lead shall be furnished in both the cab and module for connection of additional (future) portable equipment that requires recharging.

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Voltmeter

Y__N__

VOLTMETER

The voltmeter shall be a digital display meter accurate to + or - 2%. The display must indicate the stabilized voltage of the chassis and module batteries.

Alarm, Low Voltage, With Buzzer and Indicator ,in cab console

Y__N__

VOLTMETER

The electrical system shall be monitored by the system that provides an audible and visual warning in case of the low voltage to persons in the ambulance of an impending electrical system failure caused by the excessive discharge of the batteries. The charge status of the battery shall be determined by direct measurement of the battery voltage. The alarm shall sound if the system voltage at the battery drops below 11.8V for 12V nominal systems for more than 120 seconds.

Y__N__

AMMETER

A 300 amp ammeter display meter shall indicate the current flow to or from all batteries. If the ammeter registers a charge, the operator knows the charging system is supplying the entire electrical load and is also charging the batteries by the amount indicated by the display. If the ammeter registers a discharge, the operator knows the charging current is insufficient and the batteries are supplying a portion of the required load. With this condition, the operator can shut down some of the nonessential electrical systems or accelerate the engine to reach a balanced condition

There shall be a 5 minute delay prior to the batteries being disconnected from the module. The ignition switch, when shut off, will activate a timer that will leave the batteries on for five minutes so that the module dome lights can be left on for patient unloading or vehicle restocking.

Ignition Battery Shut off Timer, 5 minute

Y__N__

Program the battery shut-off circuit to remain on for approximately 5 minutes after the ignition has been shut off. Shutting off the ignition will activate a timer that will leave the batteries on for approximately five minutes.

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Batteries - Type III , Chevy (1)OEM,(2) 735 CCA in 8.5,STD

Y__N__

BATTERIES

The ambulance conversion shall include two or three 735CCA - AC Delco 1150 Maintenance Free batteries. In order to prevent premature failure due to excessive cycling during the manufacturing process, these batteries shall be installed at the end of the manufacturing process when the unit is ready for delivery.

BATTERY STORAGE

3 ambulance batteries shall be stored in the curbside lower #8.5 drawer style compartment. The batteries shall be mounted on a heavy duty slide out tray. The drawer slides shall be rated at 250 pounds and will include dual latches to secure the tray in the closed position. This compartment shall be vented to the underside of the module and the slide out tray shall be a fully welded aluminum pan with a black rubber matting on tray bottom.

MODULE DISCONNECT

The module disconnect shall utilize a switch located on the drivers control panel. This switch shall be used only in the event of an electrical failure or fire in the module. This shall be a safety feature only and should not be used at any other time. This switch shall disconnect the entire module electrical system with the exception of the 12V DC outlets, DOT lighting circuitry including backup alarm, the door open warning display, and the chassis circuitry. In order to prevent accidental shut-off there shall be a timing circuit that requires the button to be depressed for five seconds before it shuts off. When shut off, the front LCD display shall show graphic image depicting "Mod Power Off".

Power Outlets 12V, (2) Power Point Style, On with Ignition

Y__N__

POWER OUTLETS - 12V

The patient compartment shall include two power point style 12VDC power outlets as standard. (1) outlet shall be mounted on the action wall and (1) outlet shall be mounted above the top shelf in the lower section of the right front stack ALS cabinet. Outlets on this circuit shall be wired "On with Ignition" and protected by a medical isolator.

Outlet, Dual USB Port, 5VDC, 2.1Amp output

Y__N__

PORT 5 VOLT DC POWER USB STYLE

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The Drivers compartment shall be furnished with a 5 volt DC, 2.1 ampere capacity, separately protected circuit, with a Dual USB outlet. It shall be located in the center console to the passenger side.

Driver's Switch Panel/Radio Console - Smart Display III

Y__N__

DRIVER'S SWITCH PANEL / RADIO CONSOLE

There shall be an aluminum fabricated, vinyl covered console that is attached to the cab interior engine cover for two-way radios. This console shall provide sufficient space for the drivers control panel, electronic siren, and (3) two-way radio heads. The console shall be installed in such a manner that it can be quickly removed providing adequate space to remove the engine cover.

Map Light - LED "Little lite" Gooseneck Light, 12", Fixed Mounted

Y__N__

Mounted to the right side of the switch console there shall be a 12 inch Little Lite high intensity gooseneck light. It shall have a removable red filter and include hi-lo dimmer in the lamp base.

Power Distribution - Smart Display III, Ultraview

Y__N__

POWER DISTRIBUTION

Power Distribution - Smart Display Multiplex controls with touch screen
Smart Display, Multiplex System w/LCD VGA Screen on front switch panel. System to include sealed Micro-Touch Membrane Switches and electro-luminescent backlighting in the Front and Rear Switch Panels. The front panel to include Includes an O2 Regulator/Transducer
INCLUDES VIDEO INPUTS FOR CAMERA OR GPS

EMERGENCY SYSTEMS - Chevy CG-Series

Y__N__

EMERGENCY SYSTEMS

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Siren Electronic - Whelen 295SLSA1

Y__N__

WARNING AUDIBLE - SIREN, SPEAKERS, AIR HORNS

The ambulance shall be equipped with a Whelen #295SLSA1 "Self Diagnostic", non-remote siren, with NC microphone. The siren shall be ignition powered and will provide hands free control feature that allows switching between three siren modes and siren off from the horn ring. Siren mode choices are user programmable from 17 different Scan-Lock siren tones. Includes remote Siren/Horn switch on drivers control panel.

Speakers - (2) CPI "Though-The-Bumper" for G3500/4500

Y__N__

The vehicle shall come equipped with two Cast Products #SA4316-07CG35 polished aluminum speakers recessed in the OEM front bumper.

Air Horns - Buell, 10" & 12" Dual Tone, Thru Bumper, Tank/Compressor Chevy CG

Y__N__

This vehicle shall be equipped with (1) 12 inch and (1) 10 inch Buell Strombos airhorn mounted through the OEM front bumper. The system shall include a frame mounted air reservoir and a 12V pump mounted in the second exterior compartment on the drivers side. The airhorn system shall include a foot switch for the driver. The pump will be protected by an aluminum cover.

Control Switch - Air Horns Momentary Switch on front of switch panel

Y__N__

BACKUP ALARM

The vehicle shall be equipped with an electric back-up alarm that will produce a minimum of 97 decibels. A momentary cut-off switch with automatic reset feature will be provided.

Backup Alarm, Echo Vision EBD-0231, Dual Sensor. rear of unit with screen

Y__N__

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BACKUP ALARM

The vehicle shall be equipped with a Sonic Alarm, Echo Vision EBD-0231 back-up alarm. There will be (2) sensors mounted on the rear of the module above the diamond plate kick panel, (1) sensor module on each side mounted at the same level.

Backup Camera

The vehicle shall be equipped with a rear facing backup camera with a screen that can be viewed by the driver while operating the vehicle. Y__N__

Emergency Sequencer/Load Manager

Y__N__

EMERGENCY SEQUENCER / LOAD MANAGER

The emergency light switching system shall incorporate a built in sequencer that turns on and off the emergency loads at one/half second intervals. A built in electrical load manager will be preprogrammed to shut down pre-selected and/or non-essential loads in priority order as needed to maintain sufficient charge in the 12VDC system.

Visual Warning Front Upper - (7) Seven Light Straight Line Configuration

Y__N__

WARNING VISUAL - FRONT UPPER

The front wall of the module shall have (7) seven warning lights evenly spaced in a straight line across the top of the module wall and shall be arranged as follows from the streetside corner to the curbside corner:

Headlight Flasher, Whelen SSFPOS Wigwag with night cutout

Y__N__

HEADLIGHT FLASHER

This unit shall come equipped with a Whelen #SSFPOS headlight flasher with high beam and night cutout.

Warning Light Flasher - Vanner 9860GCPE - Smart Display/PC System

Y__N__

WARNING VISUAL - FLASHER

The vehicle shall be equipped with a Whelen model AFM1660 KKK-E certified Halogen/LED and LED only flashers with Scan-Lock™ flash pattern control, and illuminated status indicator light. Two wire design 16

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outlet halogen, LED or Super-LED® ambulance flasher. Each outlet will operate up to a 65 watt lamp (5 amps). Short circuit and thermal protected. For interior use only. AMP Mate-N-Lok® connectors.

Emergency Flashers Set to - Custom Flash Pattern

Y__N__

WARNING VISUAL - FLASH PATTERN

The vehicles emergency flashers shall flash as follows:

Whelen 900 LED, w/Chrome Flange - RED w/ Clear Lens (Internal Flasher)

Y__N__

This light shall be a Whelen 900 series Super LED light with a chrome flange and internal flasher. The LED color shall be red and the lens shall be clear.

Whelen 900 LED, w/Chrome Flange - RED w/ Clear Lens (Internal Flasher)

Y__N__

This light shall be a Whelen 900 series Super LED light with a chrome flange and internal flasher. The LED color shall be red and the lens shall be clear.

Whelen 900 LED, w/Chrome Flange - WHITE (Internal Flasher)

Y__N__

This light shall be a Whelen 900 series Super LED light with a chrome flange and internal flasher. The LED color shall be white and the lens shall be clear.

Whelen 700 LED - RED w/ Clear Lens (Internal Flasher)

Y__N__

This light shall be a Whelen 700 series Super LED light with an internal flasher. The LED color shall be red and the lens shall be clear.

Whelen 700 LED - RED w/ Clear Lens (Internal Flasher)

Y__N__

This light shall be a Whelen 700 series Super LED light with an internal flasher. The LED color shall be red and the lens shall be clear.

Whelen 600 LED, w/Chrome Flange - RED / Clear Lens (Internal Flasher)

Y__N__

Whelen 600 LED, w/Chrome Flange - RED / Clear Lens (Internal Flasher)

Y__N__

Whelen 600 LED, w/Chrome Flange - AMBER / Clear Lens (Internal Flasher)

Y__N__

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Whelen 600 LED, w/Chrome Flange - AMBER / Clear Lens (Internal Flasher)

Y__N__

LINZ6 super led in grille red w/ clear lens

Y__N__

Flange, Whelen, Chrome, 700 series

Y__N__

There shall be a chrome flange for the above light.

EXTERIOR AUTOMOTIVE LIGHTING

Y__N__

LIGHTING - EXTERIOR

The basic exterior vehicle lighting shall include headlights, parking lights, directional signal lights, tail and stop lights, license plate light, back-up lights, hazard warning lights, clearance lights and reflectors, as required by F.M.V.S.S. 571.108.

Tail Lights, Brake/Turn - Whelen 600-Series, 5MM LED, W/Chrome Flange

Y__N__

The rear lights shall be Whelen 600 Series LED brake/tail and amber turn signals with arrow. These lights shall have chrome trim rings (Picked Separately) and be mounted vertically above the rear diamond plate area.

Back-up Lights - Whelen 600-Series Halogen, W/Chrome Flange

Y__N__

The rear back-up lights shall be Whelen 600 Series halogen. These lights shall have chrome trim rings (Picked Separately) and shall be mounted above the rear diamond plate area in line with the brake/tail lights and turn signals.

Marker/Clearance Lights, Front - Whelen OS Mini LED, Amber

Y__N__

The front of the module shall have (5) amber clearance lights. The clearance lights shall be Whelen OS Mini with chrome flanges.

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Marker/Clearance Lights, Side and Rear - Whelen OS Mini LED, Red/Amber

Y__N__

The side body marker lights and rear clearance lights shall be Whelen OS Mini LED type. There shall be (2) Amber mounted at the forward end of each side module roof extrusion, (2) Red mounted at the rearward end of each side module roof extrusion and (5) Red mounted in the rear module roof extrusion. In addition there shall be (2) Red marker lights on each side in the midline of the body at the rear. (1) On each side shall function as a marker light and (1) will function as a turn signal.

Rear Tail/Turn/Brake Light Mounting – W/Chrome mounting flanges

Y__N__

Chrome Flange,(1) Whelen 600 (Standard 600)

Y__N__

Outboard Rear Flashers, Wired to OEM Brake Lights (STANDARD)

Y__N__

The outboard rear emergency flashers shall be wired to the OEM brake lights. These lights shall NOT function as brake lights when Emergency Flashers are on.

Scene Lighting - (4) Whelen 900 Series Halogen, 8-32°, Standard

Y__N__

LIGHTING - SCENE

There shall be a total of four Whelen clear M9V 2-In-1 Series degree halogen scene lights with chrome trim ring mounted two streetside and two curbside. The light housing shall be flush mounted and incorporate an optic lens that redirects the light at the specified angles.

Rear Load Lights - (2) Whelen 600 Series Halogen, 26°

Y__N__

LIGHTING - REAR LOADING

There shall be a total of two (2) Whelen clear M9V 2-In-1 Series lights with chrome trim rings mounted on the rear of the module over the entry doors. The light housing shall be flush mounted and incorporate an optic lens that redirects the light at the specified angles. These lights shall be a field re-lampable assembly.

Lighting Operation - Side Scene, Rear Load and Back-Up Lights, Standard

Y__N__

The electrical system shall be wired so that the rear module load lights and the

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lower back-up lights will operate when the rear doors are open, the switch on the front panel is activated, or when the vehicle is placed in reverse. With the module power switch "off", both the lower back-up lights and the upper load lights will operate when the vehicle is placed in reverse. The curbside scene lights will operate when the curbside door is opened.

Dome Lights - LED

Y__N__

LIGHTING - INTERIOR DOME

The interior lighting system shall consist of (11) LED Dome Lights fixtures in the following configuration:

- (3) Cot lights In the medical device rail over the primary cot
- (2) Bench lights over the squad bench
- (3) Dome lights Streetside
- (1) Dome light Curbside over head of squad bench
- (1) Dome light Curbside rear
- (1) Dome Light over the walkway
-

COMPARTMENT LIGHT: One (1) Vista Brand 12V LED Rope light, Model #FSW1F, shall be mounted in the compartment, per customer specified location. Y__N__

The four outside corner lights and the (1) over the walkway shall be designated module dome lights and be activated when the side or rear module entrance doors are opened or by a three-way circuit allowing these lights to be turned on and off from cab or module. The lights over the primary cot and squad bench shall have switches in the module that will allow independent high/low/off control. The lights shall produce at least 35 foot candles of light over ninety percent of the cot surface area in the high setting.

Timer -15 minute- Restocking

Y__N__

LIGHTING - TIMER

The vehicle shall be equipped with a momentary switch that will activate a fifteen minute timer, wired direct to battery, to allow operation of the module dome lights while the vehicle is off. This feature will enable personnel to clean and restock the vehicle, but eliminates the risk of leaving the lights on and draining the batteries. The momentary switch shall be located on the curbside wall near the side entrance door.

Handheld Spotlight - 200,000 CP (STANDARD)

Y__N__

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LIGHTING - SPOTLIGHT, HANDHELD

The cab shall be equipped with a spotlight with a coiled cord that is hardwired "On" with Ignition. The handle shall include a momentary switch. The bulb shall be a 12V - 200,000 candle power sealed beam non-glare bulb.

Attendant Light - 18" 12 Volt Fluorescent Light (STANDARD)

Y__N__

LIGHTING - ATTENDANT

The action wall area shall be illuminated by a surface mount 12V fluorescent fixture with (2) 18 inch long bulbs. Switching to be an integral part of the fixture.

Shore Inlet - 15 Amp Straight Blade. (STANDARD)

Y__N__

SHORE INLET

The 110V electrical system shall be furnished with a 110VAC 15 amp straight blade shore power inlet incorporating a male plug and shall be located on the street side of the module forward of the #1 compartment. The circuit shall be ground fault and circuit breaker protected incorporating a toggle switch control (GFI) with a UL approved QO type single phase load center located behind the driver seat in the cab. All 110VAC wiring shall be 12 gauge. All 110 volt AC wiring connections shall be made in UL approved junction boxes. A battery charger pigtail with female plug will be routed to the battery charger prewire area.

Receptacles, Interior - 110V-15A (1) Action Wall, (1) Right Stack

Y__N__

INTERIOR 110VAC - RECEPTACLES

There shall be two 110VAC 2-wire plus ground illuminated 15 amp duplex outlets, one located on the action area wall, and one in the right front stack ALS cabinet. The outlet in the ALS cabinet shall be located on the inboard wall of the lower section, above the top shelf. All 110VAC outlets shall be hospital grade. Wiring shall be Type SO rubber cord with spit loom cover and all connections shall be made in UL approved junction boxes.

Receptacles, Interior - (1) Additional 110V-15A, Action Area Wall

Y__N__

There shall be one additional 110VAC 2-wire plus ground illuminated 15 amp duplex outlet on the StreetSide action area wall.

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POWER SUPPLY - 110VAC

Y__N__

Inverter Charger - Vanner 1050W, Indicator on Console

Y__N__

INVERTER CHARGER

The vehicle shall be equipped with a Vanner 'UL' listed 1050 watt inverter/55 amp battery charger #20-1050CUL with internal transfer relay. This system includes a battery charger indicator mounted on driver side of the radio console.

ENVIRONMENTAL SYSTEMS

ENVIROMENTAL CLIMATE CONTROL SYSTEM

Y__N__

HVAC - Central Air Flow Discharge (UM & PM)

Y__N__

The design of the Heat/AC environmental system is to provide optimal air flow and distribution of conditioned air evenly to all areas of the module interior. Conditioned air shall not be discharged from one vent area but shall be distributed through multiple vents evenly spaced in a line down the length of the module ceiling. The plenum that supplies the vents shall be built into the module roof structure and shall not be visible. In order to support the efficient and effective performance of the system and to prevent the build-up of condensation inside, the interior of the plenum will be completely insulated with a reflective barrier insulation material.

ENVIROMENTAL CLIMATE CONTROL SYSTEM

An OEM air conditioning and high output heater shall be provided in the cab. The module system shall incorporate a combination heating and air conditioning unit. The chassis and module heating and A/C system controls shall function independently of each other.

The module heater A/C shall be a combination unit capable of 43,600 BTU heat, and 32,000 BTU cool, with a 580 CFM blower. The unit shall have an integral molded drain tray with a drain hose and built in anti-splash shields. Design of tray to insure that all moisture is drained out of the interior of the cabinet. All heater hoses shall be 5/8 inch QVM approved Nomex. Hot water flow shall be controlled by two (2) vacuum actuated inline

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water valves. All A/C fittings shall be ferruled, banded, or snap ring type. Clamps will not be acceptable. No Exception.

The thermostat and Heat/AC controls in the patient compartment shall be incorporated into control panel located within easy reach of the main attendant seat. This control panel shall provide separate switches for:

- Heat/AC mode selection
- Target temperature selection
- Fan speed

The design of the Heat/AC environmental system is to provide optimal air flow and distribution of conditioned air evenly to all areas of the module interior. Conditioned air shall be distributed through multiple vents evenly spaced in a line down the length of the module ceiling. The plenum that supplies the vents shall be built into the module roof structure and shall not be visible. In order to support the efficient and effective performance of the system and to prevent the build-up of condensation inside, the interior of the plenum will be completely insulated with a reflective barrier insulation material.

Exhaust Fan - 100 CFM Standard Location

Y__N__

The patient compartment shall include a 100CFM, high output (2) speed exhaust fan and exhaust cowl vent installed on the rear of the module on the streetside rear panel.

HVAC Aux Front Wall - Hoseline, Chevy CG-series MULTIPLEX

Y__N__

The ambulance shall include a Hoseline 12VDC combination A/C-heater system mounted above the right front cabinet. The air flow from the system will be discharged through a plenum located in the center of the patient compartment ceiling. The return air will be circulated back through a louvered grille located at the lower front of the right front cabinet and a sealed air duct into the A/C-heater system. The system will include a 12VDC inline water pump to provide adequate hot water flow to the rear heater unit and two (2) vacuum actuated water valves to be mounted in the cabinet with the A/C-heater system to facilitate service. The "Front mounted condenser and fans" is a custom housing designed to hold a A/C condenser on the front of the module and allow for additional lighting mounted on the housing. The condenser on the forward facing side. They shall provide 2948 CFM of air flow across the condenser cooling coils with four 12VDC fans and provide 50,000 BTU's of cooling for the 12V side.

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Return Air System

The air return intake shall not be less than 50 square inches. This return system shall allow the existing air in the module to be recirculated back through the heat A/C unit, thus allowing faster cooling or heating of the module environment.

Return Air Central Plenum

Y__N__

To achieve true air recirculation in the module, return air to the system shall be supplied through a return air duct built into the inboard wall of the right front ALS cabinet and will include a hidden opening at the bottom. The air intake to be elevated from the floor to allow for cove molding and roll up flooring.

Heat /AC Cabinet

Y__N__

The heater-A/C evaporator unit shall be stored in a self-contained cabinet at the top of the bulkhead. It shall be sealed so the intake can only draw from the return air duct.

Y__N__

Cot Mounting - Hardware

Y__N__

COT MOUNTING HARDWARE

The manufacturer shall install a cot mounting system that incorporates cast housings mounted below the floor level to prevent fluid contamination and to prevent exhaust fumes from entering the module through the floor.

The manufacturer shall install 1/4 inch plates below the floor to accept the mounting of the cot plates. Cot plates will be mounted with the cot manufacturer's approved bolts and torque settings.

Safety Hook - Stryker with bolts, Shipped Loose

Y__N__

A Stryker cot safety hook with appropriate fasteners shall be shipped loose with the vehicle.

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Cot Mount - Stryker 6370 Single Center Position

Y__N__

The patient compartment shall be equipped with a Stryker #6370 single center position cot fastener installed for a Stryker cot.

OXYGEN AND AIR SYSTEM

The entire oxygen system shall be assembled with certified O2 hose (250 PSI burst strength), stainless steel tees and stainless steel permanent crimps, that are accessible throughout the module. All O2 hose running throughout the module shall also be encased in a flexible plastic loom for additional protection from chafing. To provide strain relief and protect low pressure O2 line from damage during bottle changes, the line shall be mounted securely to the wall above the O2 bottle. The system shall be pressure tested in accordance with AMD standard 015, and a signed inspection sticker shall be in plain view of the attendant.

The oxygen supply system shall be installed in the patient compartment in compliance with KKK-A-1822F. Unless otherwise specified, the system shall consist of three Ohio style oxygen outlets. Two outlets shall be located on the action wall and one outlet shall be located on the forward end of the curb side wall above the squad bench. This system shall be set up so a change in outlet style is readily made by just removing the front plate, thereby not compromising integrity of the system with field changes.

O2 Cylinder Wrench - (STANDARD)

Y__N__

The O2 compartment shall be equipped with a large cylinder changing wrench #5082 secured to the wall with a cable in a location convenient to the oxygen cylinder.

O2 Cylinder Bracket - Zico #QR-MV (STANDARD)

Y__N__

The oxygen bottle bracket shall be a Zico model #QR-MV universal oxygen cylinder holder. The bracket components shall be adjustable to fit 6 inch to 9 inch diameter bottles. The bracket and mounting method shall meet AMD Standard 003 for KKK-A-1822F.

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O2 Control - Electric with Manual Bypass on Action Wall. (STANDARD)

Y___N___

The vehicle shall be equipped with an electric O2 solenoid valve to turn the 50 P.S.I. supply to the oxygen outlets on and off. The valve shall be controlled by an "On/Off" switch located on the rear switch panel. The valve shall also provide a manual by-pass feature for emergency use in the event that power to the solenoid is interrupted.

O2 Outlets - Ohio Style, (2) Action Wall, (1) Squad Bench (STANDARD)

Y___N___

The oxygen supply system shall be installed in the patient compartment in compliance with KKK-A-1822E. Unless otherwise specified, the system shall provide three Ohio style oxygen outlets. Two outlets shall be located on the action wall and one outlet shall be located on the forward end of the curb side wall above the squad bench. This system shall be set up so a change in outlet style is readily made by just removing the front plate, thereby not compromising integrity of the system with field changes.

O2 Outlet - Relocate (1) Action Wall Outlet to Ceiling

Y___N___

One standard action wall O2 outlet shall be relocated to the ceiling.

Suction System - SSCOR On-Board (STANDARD)

Y___N___

SUCTION SYSTEM

A Lexan mounting bracket for a 1200 CC disposable suction canister shall be mounted on the action area wall. The suction pump shall be piped to an SSCOR regulator that is mounted on the action wall near the suction canister. The regulator shall be complete with indicator gauge shall be plumbed directly to the suction canister. A suction canister and a 72 inch patient suction tube with a plastic suction tip shall also be supplied with the system.

The control switch for this system will be mounted in the action area switch panel. The system shall include a suction pump mounted in the dead space of exterior compartment #1.

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Fire Extinguisher - 5# (ABC) w/ Mounting Bracket. (STANDARD)

Y__N__

FIRE EXTINGUISHER

The manufacturer shall supply one (1) 5# (ABC) Fire extinguisher with mounting bracket. The fire extinguisher shall be shipped loose with the vehicle.

Y__N__

PAINT AND FINISH

Manufactor will supply complete details pertaining to their paint process

Module Paint - Single Color, OEM White

Y__N__

MODULE - PAINT FINISH COLOR

The standard modular ambulance paint finish shall be produced by the application of a certified Akzo Nobel "Sikkens" paint process. The standard process shall produce a white finish to match the standard OEM chassis white. The finished paint process shall provide a single color, solid surface paint application.

Cab Paint - Single Color, OEM White

Y__N__

CHASSIS CAB - PAINT FINISH COLOR

Standard OEM White

Graphics to be done by Brunswick

Y__N__

GRAPHICS AND LETTERING

Manufacturer Logo badge. Install (1) on the rear module streetside wall above the treadbrite area.

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Nomenclature Plaques. UNLEADED GASOLINE ONLY. (STANDARD)

Y__N__

The following labels and placards shall be provided as with this vehicle.

- SHORE INLET 110VAC 60 HZ
- ANTENNA ACCESS
- 110VAC OUTLET
- 12VDC OULET
- NO SMOKING / OXYGEN EQUIPPED
- FASTEN SEAT BELTS

Y__N__

REFERENCES AND STANDARDS

Owner's Manual (STANDARD)

Y__N__

An Owner's Manual is provided with each vehicle, and consists of the following items:

1. Chassis Warranty Card & Owner's Information
2. Chassis Maintenance and Operating Tips
3. Extra Set of Keys
4. Lifetime Module Warranty
5. Conversion Warranty
6. Electrical Warranty
7. Care and Maintenance Instruction
8. Module Remounting Procedure
9. Heater/AC Information & Warranty
10. OEM Chassis Manual
11. Schematics for Standard Systems:
 - Charging System
 - Power Distribution
 - Front Switch Panel
 - Rear Switch Panel
 - Climate Control System
 - OEM Drawings
 - Wire Harness list
 - Circuit Diagrams for all Systems
12. Conversion Component Information
13. Operations Manual
14. Warranty and Parts List - Siren, Light bar, Etc.

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Brunswick County Emergency Services 2015 Ambulance Bid Specifications 2015 Chevrolet G4500 4X2

Vendor Submission Form

Vendor Name: _____

Address: _____

Phone Number: _____

Fax: _____

Email: _____

Contact Person: _____

Bid Price: _____

I certify that the enclosed bid meets the specifications outlined in the bid packet.

Signature: _____