

## TOWN OF WESTFORD

### Invitation for Bids For

### Type I Ambulance

#### **I. General Information and Bid Submission Requirements.**

The Town of Westford, Massachusetts, acting by and through its Board of Selectmen, is soliciting sealed bids for one Type 1 Ambulance. The specifications for the Type 1 Ambulance are included as **Attachment A**.

Sealed bids shall be submitted to the Office of the Town Manager, Town Hall, 55 Main Street, Westford, MA, 01886 on or before 10:00AM, Friday, October 12, 2012, at which time all bids shall be opened publicly. Bids will be accepted until that date and time.

The Board of Selectmen, or their designee, will make one contract award to the responsible and responsive bidder (as determined by the town) with the lowest price. The town reserves the right to accept or reject any or all bids if it be in the town's best interest to do so

A bidder shall submit one copy of its bid in a sealed envelope, clearly marked on its face with the bidder's name and address and the bid title: "**Type 1 Ambulance Bid**". Bids must be received in the appropriate office as indicated above prior to the submission deadline. The Town shall not be responsible for the inadvertent opening of any bid not appropriately identified as required prior to the submission deadline. The bidder shall be solely responsible for the timely delivery of its bid. Bids shall be submitted on the Bid Form attached to this IFB as **Attachment B**. The Bid Form must be signed as follows: 1) if the bidder is an individual, by him/her personally; 2) if the bidder is a partnership, by the name of the partnership, followed by the signature of each general partner; and 3) if the bidder is a corporation, by the authorized officer, whose signature must be attested to by the Clerk/Secretary of the corporation and the corporate seal affixed to the Certificate of Vote included in this IFB.

Each bid shall be accompanied by a Bid Deposit equal to five percent (5%) of the total bid price shown on the Bid Form. The Bid Deposit may be made in the form of cash, a certified check or Bid Bond issued by a surety licensed by the Commonwealth of Massachusetts. The Bid Deposit of the three lowest bidders shall be held until the execution of the contract awarded pursuant to this IFB, all other Bid Deposits shall be returned within five (5) business days of the opening of the bids. In the event that the successful bidder fails to execute the contract when presented by the Town as provided herein, the bidder's Bid Deposit shall be forfeited to the extent of the difference between its bid and the next lowest bid of a responsive and responsible bidder.

A bidder may correct, modify, or withdraw a previously submitted bid by written notice received in the Town Manager's office at the address indicated above prior to the time and date for the opening

of bids. Bid modifications must be submitted in a sealed envelope clearly marked, with the bidder's name and address and the bid title "**Type 1 Ambulance Bid – Modification No. \_\_\_**".

After the bid opening, a bidder may not change any provision of the bid in a manner prejudicial to the interests of the Town or fair competition. Minor informalities will be waived or the bidder will be permitted to correct them. If a mistake and the intended bid are clearly evident on the face of the Bid Form, the mistake will be corrected to reflect the intended correct bid, and the bidder will be notified in writing; the bidder may not withdraw the bid. A bidder may withdraw its bid if a mistake is clearly evident on the face of the Bid Form, but the intended correct bid is not similarly evident.

Bidders shall thoroughly examine all drawings, specifications, schedules, instructions and any other documents supplied as part of this invitation to bid and shall make all investigations necessary to thoroughly inform themselves regarding the content of the written specifications, drawings, and instructions supplied herein. No plea of ignorance by the bidder pertaining to the content of the specifications, drawings, schedule, or instructions will be considered by the purchaser on the deadline, if bid submission has occurred. Failure or omission on the part of the bidder to make the necessary examinations and investigations into the content of the specifications AND make all clarifications or explanations of exceptions and conditions that exist or that may exist hereafter shall NOT be accepted as a basis for making variations to the requirements of the purchaser or compensation to the bidder.

**CLARIFICATIONS:** Clarifications shall be written correspondence between the bidder and the purchaser. A clarification shall include the page number, paragraph number, the text with unclear content (as written in the specification) and the definition of the clarification provided.

The Purchaser's clarifications shall be documented in writing and distributed to all qualified bidders at least two business days prior to the deadline for bid submission.

Bidders may take exceptions to any part of the bid contained herein with a written itemized schedule. The schedule shall include the page number, paragraph number(s), the text that the bidder feels he cannot comply with and an explanation why the bidder feels that the requirement is not in the best interest of the purchaser AND/OR an alternate bidder solution. Alternate bidder solutions may be considered by the purchaser, if the bidder can show the purchaser that the alternate solution is, in quality and quantity, equal to OR better than the specified item. Explanations of exceptions taken must be documented and submitted with the bid proposal on or before the bid submission deadline.

**BID PACKAGES SHALL NOT TAKE TOTAL EXCEPTIONS:** Bidders are required under this bid invitation to give, for the consideration of the purchaser, a proposal that will comply with the written specifications, drawings, and schedules supplied herein. The specifications supplied represent a compilation of input from all disciplines of users, patients, maintenance and management personnel who are directly affected by the vehicle performance. All the personnel who have direct working contact with the vehicle specified herein base careful consideration pertaining to safety, configuration, construction, and workmanship on working experiences. The intent of this ambulance was created as a result of resolving issues and improvement suggestions that have originated from the personnel most QUALIFIED to make such input.

The purchaser makes no claim that potential issues or improvements are included in the specifications supplied herein. The purchaser will consider any valid concern by any bidder and will consider only minor specification exceptions or alternates of equal or better performance, provided that the exceptions are steered toward meeting the intent AND the exceptions are submitted with the final bid proposal on or before the bid deadline.

**CAUTION:** A bidder who submits a bid that takes "Total Exception" and makes an offering of some "Standard" or "Stock" unit will be viewed by the purchaser as a bidder who did not make, and is not prepared to make, a valid bid, and is not qualified to manufacture the ambulance as specified herein. Alternate bids shall NOT be considered.

**INTER-AGENCY AGREEMENTS (PIGGY-BACK):** It is the intent of this bid document to make available to other government entities, by mutual agreement with the successful Bidder, the right to purchase the same or like equipment and or products, at the prices quoted for the period of the contract. Each Bidder shall indicate in the bid proposal, if the Bidder will honor other political subdivision's orders, in accordance with contract terms and conditions. This procedure is sometimes identified as a "Piggy-Back" Bid.

**VENDOR QUALIFICATIONS:** Regardless of chassis purchased, all bidders shall be members in good standing of the Ford Motor Company Qualified Vehicle Modifier Program (Q.V.M.). Certification verification shall be provided with the bid response. If for any reason the Q.V.M. Certification was withdrawn or suspended by Ford Motor Company within the past five years, the bidder shall supply a full written explanation of the Q.V.M. withdrawal or suspension and any corrective actions taken to regain Q.V.M. Certification.

**DRUG FREE WORKPLACE:** The bidder shall conduct business as a Drug Free Workplace. The bidder/manufacturer shall provide notice to their employees as required under the Drug Free Workplace Act of 1988. A copy of the bidder's Drug Free Workplace policy shall be furnished to the purchaser upon request.

**CHASSIS POOL:** The bidder shall be a member of the Ford Motor Company's and/or the General Motor Company's Chassis Bailment Pool, regardless of the chassis specified within this specification. The bidder shall provide a current Ford Motor Company and/or General Motor Company's Pool account number to the purchaser upon request.

**PRODUCT TESTING: AMBULANCE MANUFACTURER'S DIVISION:** The Bidder shall be a member in good standing with the National Truck Equipment Association (N.T.E.A.) and the Ambulance Manufacturer's Division (A.M.D.) of N.T.E.A. The bidder shall supply a letter with the bid response to verify current membership in both the N.T.E.A. and the A.M.D.

**AMD STANDARD 001: STATIC LOAD TEST: A.M.D. 001 - MANUFACTURERS' BODY STRUCTURE TESTING:** The ambulance described herein shall be tested to the National Truck Equipment Association's Ambulance Manufacturer's Division, AMD Standard 001 - Static Load Test, except the test weight shall be at least 32,000 pounds. The test results shall be certified by an independent engineering firm not directly associated with the Ambulance Manufacturer. These certified test results shall be supplied to the purchaser upon request.

**KKK-A-1822F TESTING CERTIFICATION:** The bidder shall provide documentation within this bid proposal, which verifies that all KKK-A-1822F testing is current and certified by an independent engineering firm.

**QUALITY ASSURANCE - SPECIFICATION COMPLIANCE:** The manufacturer shall inspect and test all systems and electrical loads per Federal specification KKK-A-1822F Section 4. Testing results shall be documented and displayed in the oxygen compartment and supplied with the vehicle delivery handbook.

**NOTE:** The purchaser will have zero tolerance towards bidder/vendors who state compliance to specification, but delivers an incomplete product and/or substandard materials and workmanship.

**NON-COLLUSIVE BID CERTIFICATION:** By submission of this bid response, the Bidder and/or Bidder's authorized representative(s), certify under penalty of perjury, to the best of their knowledge and belief the following:

A. The prices in this bid response have been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other Bidder or with any competitor, and;

B. Unless otherwise required by law, the prices which have been quoted in the bid response have not knowingly been disclosed by the Bidder and will not knowingly be disclosed by the Bidder, prior to the public bid opening, either directly or indirectly to any competitor, and;

C. No attempt has been made or will be made by the Bidder, for the purpose of restricting competition, to induce any person, partnership, or corporation not to submit a bid response.

**DEBARMENT STATUS:** By submission of this bid response, the Bidder and/or it's authorized representatives, certify under penalty or perjury, that to the best of their knowledge and belief they are not currently debarred from submitting bids or bidding on contracts from any agency within the home state of the purchaser, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency within the home state of the purchaser.

The contract will be awarded within thirty (30) days after the bid opening. The time for the award may be extended for up to forty-five (45) additional days by mutual agreement between the Town and the apparent lowest responsive and responsible bidder. All bid prices submitted in response to this IFB must remain firm for thirty (30) days following bid opening, and for any extension of the time for award of the contract as provided above.

Questions concerning the terms of this IFB, must be submitted in writing by mail, fax or e-mail to: the Office of the Town Manager at the address stated above before 4:00 PM on October 3, 2012 2010. Responses to any such questions will be issued as an Addendum to this IFB and will be mailed, faxed or e-mailed to all parties who have requested a copy of this IFB.

Each bid submission shall contain the Bid Form (**Attachment B**), a Certificate of Non-Collusion (**Attachment C**), a Tax Compliance Certificate (**Attachment D**) and a Certificate of Vote (corporate bidders only) (**Attachment E**).

The successful bidder must execute the contract within ten (10) days of the Town's delivery of the contract in substantially the form attached hereto as **Attachment F**. In the event the successful bidder fails to execute the contract in a timely manner, the Town reserves the right to rescind the award, and to make a new award to the next lowest bidder.

## II. Purchase Description

The Town is soliciting bids for one Type 1 Ambulance, more specifically described in **Attachment A**.

The intent of the specifications supplied herein is to purchase an ambulance with the highest level of quality and engineering excellence. The intent of this vehicle is centered on the patient's need for pre-hospital care, in conjunction with a safe working environment for the Emergency Medical Personnel.

In general, any proprietary or brand name designation included in **Attachment A** is an indication of the quality required by the Town and is not intended to limit competition in any way. Bidders may fulfill the requirements of this IFB by providing an alternate supply of equal quality and performance. Determination of the equality of an alternate brand of supply shall be in the sole determination of the Town. Proprietary or brand name supplies marked with an asterisk in **Attachment A** indicate those supplies for which a particular brand name or proprietary product is required by manufacturer's specification or other requirements of the Town, and no "or equal" substitution shall be allowed in those instances.

In submitting its bid, the bidder shall provide for a trade-in of the 1997 International Navistar 4700LP Type 1 Ambulance with approximately 181,353 miles.

The successful bidder shall obtain and maintain during the term of the contract Workers' Compensation insurance as required by the laws of the Commonwealth of Massachusetts. The successful bidder shall also provide General Liability insurance for bodily injury, including death, in an amount not less than \$1,000,000 per occurrence and property damage coverage of not less than \$500,000 per occurrence, or \$1,000,000 in the aggregate. All insurers providing coverage pursuant to the contract shall be companies licensed to do business in the Commonwealth of Massachusetts, and acceptable to the Town. All policies shall identify the Town as an additional insured (except Workers' Compensation) and shall provide that the Town shall receive written notification at least 30 days prior to the effective date of any amendment or cancellation of coverage. Certificates evidencing all such coverages shall be provided to the Town upon the execution of the contract. Each such certificate shall specifically refer to the contract and shall state that such insurance is as required by the contract. Failure to provide or to continue in force such insurance shall be deemed a material breach of the contract and shall be grounds for immediate termination at the discretion of the Town.

**DELIVERY STATEMENT AND REQUIRED DELIVERY ITEMS:** The bidder shall state the number of calendar days required for delivery of the completed ambulance, after receipt of an order and receipt of chassis by the manufacturer.

Delivery shall be within \_\_\_\_\_ calendar days after receipt of order and receipt of chassis. (State number of calendar days)

**REQUIRED DELIVERY ITEMS:** Upon a successful bid award, the vendor shall provide the following to the purchaser, upon ambulance delivery:

1. Manufacturer's Quality Assurance Vehicle Testing and acceptance documents.
2. One (1) copy of conversion parts, service, and operational manuals.
3. OEM Chassis Owner's Guide materials as provided by the chassis manufacturer.
4. Two (2) copies of "as built" customized electrical schematics for the ambulance conversion.

**ATTACHMENT A**

**Type I Ambulance Specification**

SERVICE CENTER

Y\_\_N\_\_

It is the intent of the Town of Westford to assure that parts and service are readily available for the emergency vehicle specified. Service capabilities will be a major criteria for award of this bid. To insure proper service, no bid will be accepted unless the bidder owns or offers facilities within 35 miles where complete parts and service are available. The facility must be staffed by full time personnel who are factory trained and EVT certified in the operation and repair of the emergency vehicle, with the full authorization of the manufacturer. In addition in order to ensure prompt service, the facility must be solely dedicated to the service/repair of emergency vehicles. Facilities that cater to construction and fleet trucks (i.e., highway dept., DPW, oil, concrete, etc.) will not be considered. The facility shall maintain a complete inventory, including body components, electrical items, vehicle hardware, etc. and shall offer on-site services including body fabrication, collision repair, and a paint shop complete with down draft booth with makeup air and bake options to insure the highest quality paint finish available. Bids from manufacturers or dealers who use third party service people or facilities, or who do not offer a service center will be immediately rejected. Furthermore, due to a concern over having vehicles "out-of-service" for extended periods of time as a result of having to be sent back to the original manufacturer's location for repairs, any bidder who cannot guarantee that all future repairs will be handled at a local level will not be acceptable.

The local dealer shall own and operate a full service full time parts and service center. Financial stability of the bidder is of the utmost importance, therefore any bidder subletting or renting space to conduct business will not be considered. The service facility must offer full parts, paint, body collision repair, electrical and conversion repair under one roof without use of third party facilities. Any bidder who cannot demonstrate that they meet this requirement will be deemed unresponsive and no further analysis of that bid will take place. The Town of Westford reserves the right to visit and inspect any dealer's service center during normal business hours to determine compliance with this requirement.

The bidder shall provide the primary telephone number to be used when service, parts, or general information is required. The end user reserves the right to call the published telephone number at various times during the administrative workday to verify its' authenticity. Use of answering machines, cellular telephones, or pagers in the absence of full time, verifiable employees is unacceptable. For purposes of definition, the established times for administrative workday are 08:00 to 16:30 weekdays (excluding holidays).

TYPE I - AMBULANCE - 72" INTERIOR HEADROOM

Y\_\_N\_\_

SPECIFICATION INTENT: Type I 166-inch module, constructed with not less than a 72-inch interior module height, an overall length of 288-inches, an overall width of 98-inches and an overall exterior height not to exceed 111-inches.

CHASSIS - INTERNATIONAL TERRASTAR SFA 183" WB - 4X2 DRW  
Model Profile  
2013 TERRASTAR SFA 4x2 (TA005)

Y\_\_N\_\_

APPLICATION: Ambulance

MISSION: Requested GVWR: 18000. Calc. GVWR: 17000  
 Calc. Start / Grade Ability: 38.90% / 5.37% @  
 55 MPH Calc. Geared Speed: 75.6 MPH

DIMENSION: Wheelbase: 183.00, CA: 108.60, Axle to Frame:  
 63.00

ENGINE, DIESEL: {MaxxFORCE 7} EPA 10, 300 HP @ 2600 RPM,  
 660 lb-ft Torque @ 1600 RPM, 2800 RPM  
 Governed Speed, 300 Peak HP (Max)

TRANSMISSION, AUTOMATIC: {Allison 1000\_EVS} 4th Generation Controls;  
 Close Ratio, 5-Speed, With Overdrive; Includes  
 Park Pawl, With PTO Provision, Less Retarder,  
 With 19,500-lb GVW & 26,000-lb GCW Max.

CLUTCH: Omit Item (Clutch & Control)

AXLE, FRONT NON-DRIVING: {Dana Spicer D700-N} I-Beam Type, 7,000-lb  
 Capacity

AXLE, REAR, SINGLE: {Dana Spicer S110} Single Reduction, With  
 Offset Housing, 10,000-lb Capacity, 160 Wheel  
 Ends Gear Ratio: 4.88

CAB: Conventional

TIRE, FRONT: (3) 225/70R19.5 G647 RSS (GOODYEAR) 640  
 rev/mile, load range F, 12 ply

TIRE, REAR: (4) 225/70R19.5 G622 RSD (GOODYEAR)  
 641 rev/mile, load range F, 12 ply

SUSPENSION, REAR, AIR, SINGLE: {International} Ride Optimized Suspension  
 (IROS); 12,000-lb Capacity, 6.0" Ride Height,  
 With Shock Absorbers

PAINT: Cab schematic 100TA

Code	Description
TA00500	Base Chassis, Model TERRASTAR SFA 4x2 with 183.00 Wheelbase, 108.60 CA, and 63.00 Axle to Frame.
1570	TOW HOOK, FRONT (2) Frame Mounted
1CDN	FRAME RAILS High Strength Low Alloy Steel (80,000 PSI Yield); 7.375" x 3.079" x .312" (187.45mm x 78.2mm x 8.0mm) With Transition to 9.125" x 3.079" x .312" (231.8mm x 78.2mm x 8.0mm); Includes 1.2" (30mm) Drop Under Cab; 335.2" (8512.2mm) Maximum OAL Notes: Refer to WB/AF COMBINATIONS Chart in the Compatibility Charts section of the CT-400 Data Book and the Price List for compatible AF dimension.
1MSC	BUMPER, FRONT Full Width, Aerodynamic, Steel, Chrome Plated, 0.118" Material Thickness

1SAL	CROSSMEMBER, REAR, AF (01)
1WEB	WHEELBASE RANGE 128" (325cm) Through and Including 183" (465cm)
2ADZ	AXLE, FRONT NON-DRIVING {Dana Spicer D700-N} I-Beam Type, 7,000-lb Capacity
3AGN	SUSPENSION, FRONT, SPRING Taper Leaf, Shackle Type; 7,000-lb Capacity; With Shock Absorbers Includes : SPRING PINS Rubber Bushings, Maintenance-Free
4087	BRAKE SYSTEM, HYDRAULIC {TRW 355} Split System, With Three Channel ABS Includes : BRAKE LININGS, FRONT HX-73, Non-Asbestos : BRAKE LININGS, REAR HX-73, Non-Asbestos
4EBD	AIR DRYER {Meritor Wabco System Saver 1200} with Heater Includes : AIR DRYER LOCATION Inside Left Rail, Back of Cab
4GAX	BRAKE, PARKING {TRW} Drum-in-Hat Type; for Hydraulic Brake chassis; Activated by Lever in Cab; Mounted in Rear Wheels Includes : PARKING BRAKE CONTROL Lever, Floor Mounted, Located Right of Driver
4JNH	BRAKES, FRONT, HYDRAULIC DISC {TRW} 15.35" x 1.54" Rotors; Dual 2.36" (60mm) Diam. Pistons
4NNH	BRAKES, REAR, HYDRAULIC DISC {TRW} 15.35" x 1.54" Rotors; Dual 2.36" (60mm) Diam. Pistons
4SBL	AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM Capacity; and Tank for Air Source on Hydraulic Chassis
5710	STEERING COLUMN Tilting and Telescoping
5CAL	STEERING WHEEL 2-Spoke, 18" Diam., Black
5PSN	STEERING GEAR {Sheppard MD83} Power
7BDA	EXHAUST SYSTEM Single, Horizontal, Aftertreatment Device Frame Mounted Right Side Back of Cab, Includes Horizontal Tail Pipe Includes : NOTE: The Horizontal Tailpipe Includes a Temperature Control Device
7WZX	SWITCH, FOR EXHAUST 3 Position, Momentary, Lighted Momentary, ON/CANCEL, Center Stable, INHIBIT REGEN, Mounted in IP Inhibits Diesel Particulate Filter Regeneration When Switch is Moved to ON While Engine is Running, Resets When Ignition is Turned OFF
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment Includes : BATTERY BOX Steel

- : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab
  - : FUSES, ELECTRICAL SAE Blade-Type
  - : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover
  - : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever
  - : HEADLIGHTS (2) Sealed Beam Halogen, 5" x 7" Rectangular, with Molded-In Argent Colored Bezels
  - : HORN, ELECTRIC Single
  - : JUMP START STUD Located on Positive Terminal of Outermost Battery
  - : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light
  - : RUNNING LIGHT (2) Daytime, Included With Headlights
  - : STARTER SWITCH Electric, Key Operated
  - : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector
  - : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature
  - : TURN SIGNALS, FRONT Includes Reflectors and Solid State Flashers; Flush Mounted
  - : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever
  - : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted
  - : WIRING, CHASSIS Color Coded and Continuously Numbered
- 8518 CIGAR LIGHTER Includes Ash Cup
- 8540 HORN, ELECTRIC (2)
- 8GWY ALTERNATOR {Leece-Neville 14931PAH} Brush Type, 12 Volt 320 Amp. Capacity, Pad Mounted
- 8HAB BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/ Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
- 8MED BATTERY SYSTEM {International} Maintenance-Free (2) 12-Volt 1100CCA Total
- 8RJU RADIO {International} AM/FM Stereo With CD Player, Weatherband, Clock, Auxiliary Input, Includes Multiple Speakers  
Includes  
: SPEAKERS IN CAB (2) Coaxial with Deluxe Interior  
: SPEAKERS IN CAB (4) Coaxial with Premium Interior
- 8WBW JUMP START STUD Remote Mounted
- 8WGL WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time
- 8WPZ TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights
- 8WRB HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on
- 8WWJ INDICATOR, LOW COOLANT LEVEL With Audible Alarm

8WYD STARTING MOTOR {Delco Remy 29MT} 12 Volt; Less Thermal Over-Crank Protection, With Integrated Magnetic Switch

9HCG GRILLE Chrome, with Chrome Headlight Bezels, Painted Modesty Panels, and Fender Extension

9LAC INTERNATIONAL LOGOS Ship Loose International Door Badges in Cab for Installation after Customer Graphics

9WAY FRONT END Tilting, Fiberglass, With Three Piece Construction  
Includes  
: HOOD TILT ASSIST Includes Torsion Bar Spring System

10060 PAINT SCHEMATIC, PT-1 Single Color, Design 100

10761 PAINT TYPE Base Coat/Clear Coat, 1-2 Tone

11001 CLUTCH Omit Item (Clutch & Control)

12890 BLOCK HEATER, ENGINE {Phillips} 120 Volt/1000 Watt  
Includes  
: BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door

12NVE ENGINE, DIESEL {MaxxFORCE 7} EPA 10, 300 HP @ 2600 RPM, 660 lb-ft Torque @ 1600 RPM, 2800 RPM Governed Speed, 300 Peak HP (Max)  
Includes  
: AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated (Air Brake Chassis Only)  
: ANTI-FREEZE Red Shell Rotella Extended Life Coolant; -40 Degrees F/ -40 Degrees C; for MaxxFORCE Engines  
: CRUISE CONTROL Electronic; Controls Integral to Steering Wheel  
: ENGINE OIL DRAIN PLUG Magnetic  
: ENGINE SHUTDOWN Electric, Key Operated  
: FUEL FILTER Engine Mounted  
: FUEL HEATER Included with Fuel/Water Separator  
: FUEL/WATER SEPARATOR Engine Mounted  
: GLOW PLUG Automatic with Indicator Light  
: GOVERNOR Electronic  
: OIL FILTER, ENGINE Drop-In Cartridge Type

12TTB FAN DRIVE {Borg-Warner Series 790} Viscous Type, Screw On  
Includes  
: FAN Nylon

12UBU RADIATOR Aluminum; 2-Row, Cross Flow, Side-by-Side System, 697 SqIn Louvered, With 225 SqIn CAC, With In-Tank Oil Cooler  
Includes  
: DEAERATION SYSTEM with Surge Tank  
: HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps  
: RADIATOR HOSES Premium, Rubber

12VBR AIR CLEANER With Service Protection Element  
Includes  
: GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted

12VXU THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic, Stationary Pre-Set, Two Speed Settings; Mounted on Steering Wheel

12VYP ENGINE CONTROL, REMOTE MOUNTED - No Provision Furnished for Remote Mounted Engine Control

12VZD FEDERAL EMISSIONS for 2010; MaxxForce 7 Engines

12WTA FAN DRIVE SPECIAL EFFECTS Fan Cooling Ring with Fan Shroud Effects, Engine Mounted

12WZD EMISSION COMPLIANCE Engine Shutdown System Exempt Vehicles, Complies With California Clean Air Regulations

13AKY TRANSMISSION, AUTOMATIC {Allison 1000\_EVS} 4th Generation Controls; Close Ratio, 5-Speed, With Overdrive; Includes Park Pawl, With PTO Provision, Less Retarder, With 19,500-lb GVW & 26,000-lb GCW Max.  
Includes  
: OIL FILTER, TRANSMISSION Mounted on Transmission  
: TRANSMISSION OIL PAN Magnet in Oil Pan

13WLN TRANSMISSION OIL Synthetic; 20 thru 28 Pints

13WYL SHIFT CONTROL PARAMETERS Allison Performance Programming in Primary and Allison Economy Programming in Secondary

14888 DIFFERENTIAL, LOCKING {Dana Spicer Truetrac} Torque Proportioning Limited Slip

14899 SUSPENSION AIR CONTROL VALVE Pressure Release Control In Cab

14ACR AXLE, REAR, SINGLE {Dana Spicer S110} Single Reduction, With Offset Housing, 10,000-lb Capacity, 160 Wheel Ends . Gear Ratio: 4.88  
Includes  
: REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle

14TCH SUSPENSION, REAR, AIR, SINGLE {International} Ride Optimized Suspension (IROS); 12,000-lb Capacity, 6.0" Ride Height, With Shock Absorbers  
Notes : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.

14WLA AXLE, REAR, LUBE 75W-90} Synthetic Oil; 1 thru 29.99 Pints

15SSW FUEL TANK Top Draw; Rectangular, Steel; 40 U.S. Gal., 151 L Capacity, 15" Depth, Includes Fuel Filler Assembly and Vent Hosing, Mounted Between Frame Side members and Behind Rear Axle

16030 CAB Conventional  
Includes  
: ARM REST (2) Molded Plastic; One Each Door  
: CLEARANCE/MARKER LIGHTS (5) Flush Mounted  
: COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window  
: CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel

- : DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted
- : GLASS, ALL WINDOWS Tinted
- : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side
- : GRAB HANDLE, CAB INTERIOR (2) Front of "B" Pillar Mounted, One Each Side
- : INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color
- : STEP (2) One Per Door
  
- 16975 HEATER HOSES Silicone
  
- 16990 AIR CONDITIONER, PROVISION FOR Accommodation Package, for Air Conditioning, Includes (1) SD7 Sanden Auxiliary Compressor in Secondary Compressor Position and Compressor Drive Effects for Vehicle With Primary Compressor Mounting
  
- 16HBA GAUGE CLUSTER English With English Electronic Speedometer  
Includes
  - : GAUGE CLUSTER (5) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter
  - : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout
  - : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)
  
- 16HGH GAUGE, OIL TEMP, ALLISON TRAN
  
- 16HHE GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel
  
- 16HKT IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster
  
- 16LJS SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Angle Adjust, Dual Shocks  
Includes
  - : SEAT BELT 3-Point, Lap and Shoulder Belt Type
  
- 16PPN SEAT, PASSENGER {National 2000} Air-Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjustment, Dual Shocks
  
- 16SDC GRAB HANDLE (2) Chrome Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry, Mounted Left and Right, Each Side at "B" Pillar
  
- 16SDU MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostatically Controlled, Power Both Sides, Clearance Lights LED, Bright Finish Heads & Brackets
  
- 16WBY ARM REST, RIGHT, DRIVER SEAT
  
- 16WBZ ARM REST, LEFT, PASSENGER SEAT
  
- 16WCT AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster

	Includes : HEATER HOSES Premium : CLAMPS, HEATER HOSE Mubea Constant Tension Clamps : REFRIGERANT Hydrofluorocarbon HFC-134A
16WHC	HEATER CONNECTION for International V8 Engines, With Dual Heater Outlets to Accommodate Shutoff Valves or Aftermarket Secondary Heater Requirements
16WHJ	HOSE CLAMPS, HEATER HOSE {Breeze} Belleville Washer Type
16WJS	INSTRUMENT PANEL Center Section, Flat Panel
16WJU	WINDOW, POWER (2) And Power Door Locks, Left and Right Doors, Includes Express Down Feature
16WRZ	CAB INTERIOR TRIM Premium Includes : "A" PILLAR COVER Molded Plastic : CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering : CAB SOUND INSULATION Includes Dash and Engine Cover Insulators : CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets, CB Radio Pocket, Speakers, and Reading Lights : COURTESY LIGHT (2) Mounted In Front Map Pocket Left and Right Side : DOOR TRIM PANELS with Cloth Insert on Bolster Driver and Passenger Doors : FLOOR COVERING Rubber, Black : GAUGE, TEMPERATURE, AMBIENT Includes Compass Readout and Wiring and Sensor With Display Unit Mounted in Cluster : HEADLINER Soft Padded Cloth : INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section : STORAGE POCKET, DOOR (2) Molded Plastic (Carpet Texture), Full-Length; Driver and Passenger Doors : SUN VISOR (3) Padded Vinyl: 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Vanity Mirror and Toll Ticket Strap, plus 1 Auxiliary Visor (Front Only), Driver Side
16XRN	MODESTY PANEL Molded, Dark Gray Color
26DRR	WHEEL, SPARE, DISC 19.5" Painted Steel, 10 Stud (225MM BC) Hub Piloted, Flange Nut, Metric Mount, 6.00DC Rim
27DAU	WHEELS, FRONT DISC; 19.5" Painted Steel, 10-Stud (225mm BC) Hub-Piloted, Flanged Nut, Metric Mount, 6.00 DC Rims; With Steel Hubs
28DAU	WHEELS, REAR DISC; 19.5" Painted Steel, 10-Stud (225mm BC) Hub-Piloted, Flanged Nut, Metric Mount, 6.00 DC Rims; With Steel Hubs
29007	TIRE, SPARE Equal to Model Standard Notes : NOTE: Only One Spare Tire per Truck Ordered. Order Must Reflect Number of Tires Required (Including Spare). 10-Digit Tire Code and Spare Rim/Wheel Code Must be Specified.

- 29PAR PAINT IDENTITY, FRONT WHEELS {Accuride} Disc Front Wheels; With Vendor Applied (PKWHT21) White Powder Coat Paint
- 40038 WARRANTY TerraStar Standard 36 Month / 36,000 Miles
- 60ACW BDY INTG, I/O EXPANSION HARNES {for Diamond Logic Builder} In-Cab wire harness (DLB) program only, Includes a harness with five blunt cut wires routed on lower left of instrument panel. Two ground active inputs and two (.5Amp) relay drivers outputs are provided
- 7709440101 (3) TIRE, FRONT 225/70R19.5 G647 RSS (GOODYEAR) 640 rev/mile, load range F, 12 ply
- 7709448102 (4) TIRE, REAR 225/70R19.5 G622 RSD (GOODYEAR) 641 rev/mile, load range F, 12 ply

Programming  
 Modify Exhaust To Exit LH Side in Front of Rear Tires  
 Furnish Triangle Kit and Fire Extinguisher  
 IPD REAR SWAY BAR without tire CHAINS  
 Furnish A/C compressor tie in parts  
 Dual Leveling Valves  
 Furnish and Install Ping Tanks  
 Furnish And Install Rear Bump stops  
 Transmission is a 5 year warranty  
 Fuel Tank Modification

FUEL TANK - FULL UPON FACTORY RELEASE Y\_\_N\_\_  
 The chassis fuel tank of the completed unit shall be full at time of release from the ambulance manufacturer's facility.

BUMP STOPS Y\_\_N\_\_  
 Bump stops shall be installed on the chassis to protect the air ride suspension air bags.

BATTERY - TWO SYSTEM - TERRASTAR Y\_\_N\_\_  
 The chassis shall have two (2) International OEM maintenance free 12 volt batteries with 1100 cold cranking amps.

CONDENSER AUXILIARY - MODULE FRONT Y\_\_N\_\_  
 An auxiliary condenser shall be installed on the front of the module. The condenser and mounting brackets shall be painted to match the module.

SECONDARY COMPRESSOR Y\_\_N\_\_  
 The chassis shall be equipped with a separate engine mounted compressor to provide air conditioning to the patient compartment.

ENGINE BLOCK HEATER - OEM PLUG Y\_\_N\_\_  
 An engine block heater shall be included in the chassis with the 125 VAC power cord, located under the hood.

FLOOR CONSOLE, ANGLED FRONT - REMOVABLE PLATES - ALUMINUM Y\_\_N\_\_  
 A center floor console manufactured out of aluminum and covered in a black onyx scratch resistant, multi-use polychromatic coating with a clear epoxy finish shall be installed in the cab. The console shall include a raised area angled towards the driver to accommodate the Weldon Vista display. The lower portion of the console shall consist of a flat area that shall contain two (2) drink holders, with the siren installed between them, then to the rear center a recessed storage area for maps and reports. The console face plates shall be removable for accessibility and serviceability.

**HEAT SHIELDS** Y\_\_N\_\_  
 Protective heat shields shall be installed above the exhaust system as recommended by the chassis manufacturer.

**LIGHTS FOG, BLUE OVAL** Y\_\_N\_\_  
 One (1) pair of oval fog lights will be installed. The lights will be equipped with clear lens and blue bulbs. The lights will be activated via switching on the master control center, and only when the OEM headlights are dimmed.

**MIRRORS, EXTERIOR 7"X15" POWER/HEATED** Y\_\_N\_\_  
 The chassis shall have OEM exterior mirrors. The mirrors shall be heated and remote, rectangular, 7" x 15" with bright finish. The mirrors shall also each be equipped with an integral convex mirror and a led clearance light. Both the mirror heads and mirror brackets shall have a bright chrome finish.

**EXTERIOR CAB STEPS - NFPA DIAMOND PLATE** Y\_\_N\_\_  
 Exterior cab step covers shall be constructed of NFPA diamond plate material. The lower step to include a grip strut insert. The step covers shall be installed over the battery and fuel tank areas.

**OEM WHEELS - WITH VALVE STEM EXTENSIONS** Y\_\_N\_\_

**CHASSIS CONVERSION - ALUMINUM WHEELS** Y\_\_N\_\_  
 The chassis shall be supplied with aluminum wheels having hub and nut covers.

**CHASSIS CONVERSION - SPRING SUSPENSION** Y\_\_N\_\_  
 The rear suspension shall be OEM springs with MOR-RYDE Rubber Shackle Suspension.

**ELECTRICAL SYSTEM - WELDON V-MUX, MICRO PROCESSOR BASED** Y\_\_N\_\_  
 A Weldon V-MUX 100% solid state microprocessor based multiplex system shall be installed to control the electrical functions. The system shall include load management, load shedding, power modulation, load sequencing capabilities and provide on-board diagnostics with real-time status reporting. The system shall consist of one (1) color control console (Vista) in the cab, one (1) color control console (Vista) in the patient compartment, four (4) control nodes (Hercules), and a cab warning display with video input and monitoring capabilities.

The system must be a Weldon V-MUX. **No exception.**  
 Bidders who propose any other proprietary electrical system shall be considered as non-compliant.

**Documentation required with bid submission**  
 Bidder must supply with his/her bid proposal, a listing of not less than 500 ambulances produced with the Weldon V-MUX system within the past 5 years. The documentation shall include a production order number, the purchaser's agency name, and the date the ambulance was delivered.

Bids submitted without this documentation shall not be considered.

**VISTA IV MCC - PUSH BUTTON** Y\_\_N\_\_  
 A Weldon V-MUX Vista IV interface module / display screen shall be provided and installed in the cab. The Vista module shall be operated through the use of push buttons.

**VISTA IV ACP - PUSH BUTTON** Y\_\_N\_\_  
 A Weldon V-MUX Vista IV interface module / display screen shall be provided and installed in the patient compartment. The Vista module shall be operated through the use of push buttons.

**WARNING DISPLAY - MULTIPLEX ELECTRICAL SYSTEM** Y\_\_N\_\_  
 A digital warning display shall be integrated into the cab display console and programmed through the multiplex system to provide visual and audible indications for:

Parking brake set condition

Parking brake release condition

Patient status alarm (four color with reset capability)

Individual outside storage compartment "door open" warnings in vehicle outline form.

Low voltage alarm

Low oxygen pressure alarm

DAYTIME RUNNING LAMPS - MULTIPLEX ELECTRICAL SYSTEM Y\_\_N\_\_

Headlights shall be activated at 30% intensity, for day time operation, when transmission is placed in drive, as a feature of the multiplex system. (if not standard on the chassis)

MASTER CONTROL CONSOLE (MCC) - MULTIPLEX ELECTRICAL SYSTEM Y\_\_N\_\_

A floor mounted Master Control Console (MCC) shall be located in the cab. The console shall house the siren and the color microprocessor display screen, which will control all the Emergency Warning functions as well as also being able to control the Patient Compartment lighting and module heat/ac functions.

ATTENDANT CONTROL PANEL (ACP) - MULTIPLEX ELECTRICAL Y\_\_N\_\_

The Attendant Control Panel (ACP) shall contain a color micro processor screen, which will control all equipment installed in the patient compartment.

ELECTRICAL COMPARTMENT (PDQ) - MULTIPLEX ELECTRICAL SYSTEM Y\_\_N\_\_

The Power Distribution Quarters (PDQ) shall hold electrical components, (i.e. power distribution nodes, circuit breakers, etc). The electrical compartment shall be enclosed with a lockable, hinged door, located on the partition wall behind the attendant seat.

SPARE CIRCUIT - MULTIPLEX ELECTRICAL SYSTEM Y\_\_N\_\_

One (1) spare 15 amp circuit shall be provided.

WIRING HARNESS CONNECTORS - MULTIPLEX ELECTRICAL SYSTEM Y\_\_N\_\_

All wiring harnesses shall be connected via quick connect circular plug connectors.

RADIO TIE-IN POINTS - MULTIPLEX ELECTRICAL SYSTEM Y\_\_N\_\_

Radio tie-in points shall be installed and labeled in the lower area of the electrical compartment. The radio tie-in points shall be comprised of insulated terminal stud blocks with one "battery hot" and one "ignition hot".

EMERGENCY MASTER SWITCH - MULTIPLEX ELECTRICAL SYSTEM Y\_\_N\_\_

A single emergency master switch shall be supplied for activating all the emergency warning lights and shall be provided on the master control console screen. The emergency master switch will activate the module power automatically. There shall also be an Emergency Master Menu button which shall allow access to individual warning light functions.

CONTROL PANEL SWITCHES - MULTIPLEX ELECTRICAL SYSTEM Y\_\_N\_\_

The switches on the master control console and attendant control panel screens shall have dimmable perimeter backlighting for easy identification.

MODULE POWER SWITCH - MULTIPLEX ELECTRICAL SYSTEM Y\_\_N\_\_

A module power switch for the electrical system shall be provided on both the master control console and the Attendant Control Panel screens.

MODULE DISCONNECT - MULTIPLEX ELECTRICAL SYSTEM Y\_\_N\_\_

An In-Power disconnect with a built-in adjustable timer shall be installed to keep the module power switch engaged for five minutes, after the ignition is switched to the "off" position. This disconnect can also be activated from the side and rear doorways to turn on the fluorescent check-out lights.

**VOLTMETER - MULTIPLEX ELECTRICAL SYSTEM** Y\_\_N\_\_

One (1) digital voltmeter shall be provided on the master control console screen.

**FLASHER - MULTIPLEX ELECTRICAL SYSTEM** Y\_\_N\_\_

The flasher shall be provided within and programmed by the multiplex electrical system.

**FLASHING HEADLIGHTS - MULTIPLEX ELECTRICAL SYSTEM** Y\_\_N\_\_

The headlights (high beams) shall be programmed through the multiplex system to alternate flash (wig-wag), activated by a switch on the master control console screen labeled "Flashing Headlights", with the ignition on and module power and emergency master switches enabled. The flashing headlights are to be disabled when the low or high beams are activated. They are also disabled when the transmission is placed in the neutral/park position. The flashing headlights shall have the capability to be reactivated with the "park override" switch in the "on" position if the low and high beams are off.

**PARK OVERRIDE - MULTIPLEX ELECTRICAL SYSTEM** Y\_\_N\_\_

A park override switch, located on the master control console screen, shall reactivate all lights disabled when the transmission is placed in the neutral/park position.

**LOAD MANAGER-SEQUENTIAL SWITCHING SYSTEM - MULTIPLEX ELECTRIC** Y\_\_N\_\_

The load manager-sequential switching system shall be controlled by the microprocessor based electrical system. The emergency master switch shall control the sequential switching of the emergency lights and/or other warning devices. The load manager shall automatically shed non-critical electrical loads during low voltage conditions to help prevent electrical system overload when the vehicle is stationary and the transmission is in the park position.

**WARNING LIGHTS SWITCH - MULTIPLEX ELECTRICAL SYSTEM** Y\_\_N\_\_

All flashing module warning lights (including the primary front and rear light bar flashers) shall be operated from a single switch on the master control console screen, labeled "flashers".

**FRONT CLEAR DISABLE SWITCH - MULTIPLEX ELECTRICAL SYSTEM** Y\_\_N\_\_

Activation of the switch on the master control console screen shall disable all forward facing clear warning lights.

**CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR - MULTIPLEX EL** Y\_\_N\_\_

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

**REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN - MULTIPLEX ELEC** Y\_\_N\_\_

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

**DISABLE SWITCH FOR REAR SCENE LIGHTS - MULTIPLEX ELECTRICAL** Y\_\_N\_\_

A disable switch shall be installed at the rear door area to disable the rear scene lights.

**DISABLE SWITCH FOR SIDE SCENE LIGHTS - MULTIPLEX ELECTRICAL** Y\_\_N\_\_

A disable switch shall be installed at the curbside door area to disable the curbside scene lights.

**REVERSE (TRANSMISSION) FUNCTIONS - MULTIPLEX ELECTRICAL** Y\_\_N\_\_

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

**AIR HORNS - BUELL DUAL TRUMPETS 12" & 15", ON FENDERS W/LANYARD** Y\_\_N\_\_

A Buell air horn system with dual trumpets, one (1) 12" and one (1) 15" mounted on cab fenders. The compressor shall be installed in OSS #2. The air horns shall be activated by a push button switch located on the MCC (master control console) or by a lanyard cable installed in the OEM cab headliner area.

**BACKUP ALARM**

Y\_\_N\_\_

An (OSHA approved) back up alarm shall be installed with disable switch for silent backing. The disable switch shall be located on the MCC (master control console). The back up alarm system shall automatically reset to the "on" mode when the transmission is taken out of reverse.

**CAMERA REAR VIEW SINGLE SYSTEM - VISTA SCREEN**

Y\_\_N\_\_

A color camera system connected to the cab Vista display screen shall be installed, providing rear view monitoring to the rear exterior of the module. This camera image shall automatically be displayed on the MCC Vista when the vehicle is placed in reverse. The Vista shall resume normal operation when the vehicle is taken out of reverse

**BATTERY STATUS INDICATOR LIGHT- KUSSMAUL-LED BAR GRAPH**

Y\_\_N\_\_

A Kussmaul battery charge indicator light will be installed on the module and located near the shoreline inlet. The indicator shall give a lighted LED bar graph type indication of the amount of charge contained in the 12 volt battery system.

**ELECTRICAL CIRCUITS**

Y\_\_N\_\_

All electrical circuits shall have wiring and circuit protection suitable to the demand and must meet the national electric code (NEC) wiring requirements.

All added on wiring (18 GA through 10 GA) shall be color coded and stamped with code numbers and functions every 4" for easy identification (all other wiring shall be color coded). SLX high temperature thermoplastic cross link wire shall be used.

SGX insulated cable shall be used for all under hood / underbody battery and charging system cable. High temperature (375°F) thermoplastic loom shall be used on all harnesses.

**GROUND FAULT CIRCUIT INTERRUPTER (GFCI)**

Y\_\_N\_\_

A 125 VAC, 20 AMP circuit breaker with ground fault circuit interrupter (GFCI) electronic ground leakage detection shall be installed in the load center for the shoreline circuit.

**INVERTER, VANNER - 1050 WATT, #20-1050CUL-DC CHARGER**

Y\_\_N\_\_

A Vanner 20-1050CUL-DC, 1050 watt inverter with battery conditioner/charger, with remote switch, shall be provided and installed.

**LIGHT, ATTENDANT CONTROL PANEL AREA**

Y\_\_N\_\_

A 16" fluorescent light, with integral switch, shall be mounted above the left wall forward action area counter.

**LIGHT, ELECTRICAL COMPARTMENT (PDQ)**

Y\_\_N\_\_

A 12 VDC light shall be located in the electrical compartment. The light shall be wired "battery-hot" to activate when the power distribution quarter's door is in the open position. The light shall be off when the door is in the closed position.

**LIGHT REAR FACING EXTERIOR DOORS, INTERIOR - ONE (1) RED SUPER 44 PER DOOR**

Y\_\_N\_\_

One (1) Truck Lite red Super 44 LED light shall be installed on the interior of all rear facing exterior compartment and patient entry doors. The light shall be located on each lower outer corner. The lights shall random flash upon door opening.

**LIGHT OSS COMPARTMENT - LED WHELEN -STRIP LIGHT CLEAR w/ 45 DEG BRKT (2 PER OSS)**

Y\_\_N\_\_

Each of the five (5) outside storage compartments shall be equipped with two (2) PSCOCDCR Whelen 6-diode LED strip lights, activated by a magnetic switch. Ten (10) total lights. The lights shall be installed in Whelen PSBKT451 45 degree brackets.

**LIGHT, SPOTLIGHT - HAND-HELD - OPTRONICS - BLUE EYE**

Y\_\_N\_\_

One (1) 12 VDC #KB-4003 hand-held spotlight with a 400,000 candle power "blue eye" bulb, 10 foot coil cord, and momentary switch shall be provided. The spotlight shall be hard wired to the cab master control console. A black ABS vacuum-formed spotlight holder shall be shipped loose with the completed ambulance.

**LIGHTS, DOME LED (10) Whelen**

Y\_\_N\_\_

Ten (10) Super LED dome lights, Whelen #80COEHCR, shall be provided in the patient compartment. The dome lights shall be controlled by separate switches for the left bank and right bank of lights. The dome lights shall be activated by switches on both the attendant control panel and the master control console. The dome lights shall be illuminated at 50% power whenever the patient compartment side or rear doors are opened.

**LIGHTS, RECESSED LED PANEL (2) CURBSIDE - ANGLED**

Y\_\_N\_\_

Two (2) 12 VDC powered LED WhiteLight   recessed lights shall be mounted on the curbside. These lights shall be three way switched from the attendant control panel and the master control console.

**OUTLETS, 125VAC - FOUR (4) INTERIOR DUPLEX**

Y\_\_N\_\_

Four (4) 2-wire +plus ground 125 VAC hospital-grade duplex outlets shall be installed in the patient compartment with wiring connected to the shoreline. Two (2) outlets shall be installed in the street side cabinet action area, one (1) forward and one (1) rearward, to supply 125 VAC to the monitoring equipment. One (1) outlet shall be installed in the lower front wall cabinet and one (1) outlet shall be installed in a location to be determined at the pre-construction meeting. An indicator lamp shall be located within each 125 VAC outlet as a line monitor to indicate a live circuit. The outlets shall be labeled, "125 VAC".

**OUTLETS, 12VDC - TWO (2) INTERIOR POWERPOINT**

Y\_\_N\_\_

Two (2) 12 VDC power point outlets shall be installed in the patient compartment, one (1) in the front wall equipment area, and one (1) in the attendant control panel area in the street side cabinet. The outlets shall be labeled, "12 VDC". A Schottky diode medical isolator shall be provided to protect the 12 VDC outlets.

**RADIO ANTENNA BASES - SIX (6)**

Y\_\_N\_\_

Six (6) antenna bases with attached coax cables shall be installed on the module roof. Two (2) of the coax cables shall terminate in the PDQ, and four (4) of the coax terminations to be determined at the pre-construction meeting. Access to the antenna bases shall be through adjacent module interior dome lights.

**RECEPTACLE SHORELINE INLET-SUPER 20 AMP, AUTO EJECT - YELLOW COVER**

Y\_\_N\_\_

A Kussmul super auto eject shoreline inlet receptacle with yellow cover shall be installed on the module exterior (forward street side) near the driver's door. The receptacle shall be equipped with an integral dynamic disconnect.

The 125 VAC, heavy duty 20-amp circuit breaker shall have GFCI protection and shall be connected to the lighted 125 VAC patient compartment outlet(s) and to the engine block heater (with a block heater circuit breaker in the load center). A mating connector shall be shipped loose with the completed ambulance.

**SIREN, WHELEN 295-HFSA7-REMOTE WITH MICROPHONE**

Y\_\_N\_\_

A Whelen 295-HFSA7 remote dual siren amplifier shall be flush-mounted in the master control console located in the cab. The siren shall be capable of hands-free operation and shall be equipped with a noise canceling microphone. Some features of this siren include:

**DUAL 200 WATT, FLUSH MOUNT SIREN with REMOTE SIREN AMPLIFIER**

- Six function siren plus radio repeat and public address.
- Operates two 100-watt speakers.
- Operates in dual (outputs 2 independent siren tones creating rich harmonic dual tone sound) or mono sound modes.
- External dip switch programmable siren tones.
- PTT (push to talk) switch on microphone overrides all siren functions.
- Removable unidirectional microphone with adjustable microphone volume & adjustable preset radio repeat volume.
- SI TEST®, silent diagnostic test.
- Quick disconnect plug for ease of service or replacement.
- 5 year HDP® (Heavy-Duty Professional) warranty.

**12 Siren Tones**

- Air horn • Wail • Yelp • Piercer • Manual Coast to Stop
- Manual • Mechanical Coast to Stop • Hi/Low • Yelp 249
- Warble • Whoop • Mechanical Tone

**SIREN SPEAKERS, CAST PRODUCTS - IN FRONT BUMPER**

Y\_\_N\_\_

Two (2) Cast Products 100-watt siren speakers shall be installed in the front bumper.

**SYSTEM ACTIVE AND CHECK OUT LIGHTS - 5 MINUTES**

Y\_\_N\_\_

A switch shall be located at the curb and rear entry doors that will allow activation of the V-MUX electrical system. There shall also be a check out light switch located at the curb and rear doors that will allow activation of the left fluorescent lights prior to entering the module. The system shall be programmed to shut down automatically after 5 minutes unless the ignition is on. This shutdown delay shall be user adjustable.

**VISTA DISPLAY SCREEN - PUSH BUTTON - CURBSIDE ADDITIONAL - FIXED**

Y\_\_N\_\_

One (1) additional Vista screen shall be provided in the patient compartment, located on the curbside wall on a fixed angled mount over the head end of the squad bench.

**LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON MODULE SIDE**

Y\_\_N\_\_

The vehicle shall have surface mounted Peterson MFG LED clearance / ICC lights with chrome bezels: one (1) red on each side at the rear of the vehicle which will also function with the turn signals.

**LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON MODULE FRONT**

Y\_\_N\_\_

The vehicle shall have five (5) amber surface mounted Peterson MFG LED clearance / ICC lights with chrome bezels on the front of the module near the roof line.

**LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON MODULE REAR**

Y\_\_N\_\_

The vehicle shall have five (5) red surface mounted Peterson MFG LED clearance / ICC lights with chrome bezels on the rear of the module near the roof line.

**LIGHTS, RUNNING BOARD- WHELEN- (2 inch round) T0CACCCR - LED**

Y\_\_N\_\_

One (1) pair of Whelen white T0CACCCR LED lights with black grommets shall be installed one (1) each side, low on the module front, as running board lights. The lights shall activate with the cab door switches.

**LIGHTBAR, FRONT - WHELEN FREEDOM 8 RED LED**

Y\_\_N\_\_

One (1) Whelen Freedom 55" light bar shall be mounted on the cab roof. The light bar shall have clear lenses and eight (8) red LED lights. The light bar shall operate from a single switch on the master control console, labeled "Lt Bar Front".

**LIGHTS, FRONT GRILLE - (4) WHELEN 700 SUPER LED - RED**

Y\_\_N\_\_

Four (4) Whelen 700 series red super LED warning lights, with clear lenses and waterproof connectors shall be installed in the grille area of the chassis. The lights shall operate from a switch on the master control console labeled "Flashers". These light will flash in an "X" pattern.

LIGHTS, FRONT MODULE WARNING - WHELEN (2)900 LED/(1)700 LED Y\_\_N\_\_

Two (2) Whelen 900 series red Super LED warning lights with red lenses and chrome bezels shall be installed on the module front outer corners. A Whelen 700 clear center LED light with a chrome bezel shall be installed. The lights shall operate from a switch on the master control console labeled "Flashers".

LIGHTS, FRONT MODULE TURN SIG - WHELEN 600 LED ARROWS AMBER Y\_\_N\_\_

One (1) pair of Whelen 600 LED amber turn arrows in chrome bezels shall be mounted on the front of the module under the warning lights.

LIGHT, OPTICOM, PRIORITY CONTROL SYSTEM Y\_\_N\_\_

A 3M Opticom  priority control system shall be installed on the module front. The control system provides positive guidance for emergency vehicles and sustains flow control for traffic engineering.

LIGHTBAR, REAR MODULE - WHELEN #TAL-85 LED ARROW DIRECT Y\_\_N\_\_

A Whelen # TAL-85 LED directional arrow light bar shall be installed on the rear of the module. The directional arrow light bar shall have a multi-function controller mounted in the OEM chassis cab. The directional arrow light bar shall be configured with turn arrow filters on each end of the bar.

LIGHTS, REAR TAIL - WHELEN 600 LED STOP, TURN, & MINIMUM INTENSITY BACK-UP Y\_\_N\_\_

One (1) pair each of Whelen 600 series LED stop/tail lights, turn lights, and MINIMUM intensity LED back-up lights with chrome bezels shall be installed on the rear of the module. The stop lights shall be set to signal alert and flicker before turning steady-on. The turn signals shall be programmed to progressively sweep an arrow when the turn signals are activated.

LIGHTS, REAR WINDOW-LEVEL- WHELEN (4)900 SUPER LED (2-RED, 1-BLUE & 1-AMBER) Y\_\_N\_\_

Four (4) Whelen 900 series super LED warning lights in chrome bezels shall be installed on the rear of the module, in a stacked configuration, at window level, two (2) each module side. The upper right light shall have amber LED and amber lens and the lower right light shall have red LED and red lens. "X" Flash pattern. The left upper light shall have a red LED with a red lens. The lower left light shall have a blue LED with a blue lens.

LIGHTS, REAR MODULE WARNING-WHELEN (2) 900/ LED & 700 LED SCENE & 700 AMBER Y\_\_N\_\_

Two (2) Whelen 900 series red super LED warning lights with red lens, two (2) Whelen 700 series LED load lights. and one (1) Whelen 700 amber LED shall be installed on the rear of the module. The lights shall be installed with chrome bezels and shall be operated from switches on the master control console labeled "Flashers" and "Rear Scene Lights".

LIGHTS, INTERSECTION FRONT - WHELEN 700 SUPER LED - RED Y\_\_N\_\_

Two (2) Whelen 700 series red super LED warning lights, with red lens, chrome bezels and waterproof connectors, shall be mounted on the front chassis fenders, one (1) on each side. The lights shall operate from a switch on the master control console labeled "Flashers".

LIGHTS, SIDE MODULE SCENE - WHELEN 900 24 DIODE LED - CLEAR Y\_\_N\_\_

Four (4) Whelen 900 series (clear 2-40° light spread) 24 Diode LED scene lights with chrome bezels shall be installed, two (2) each module side, inboard of the warning lights. These lights shall operate from switches on the master control console labeled "Left Scene Light" and "Right Scene Light".

LIGHTS, SIDE MODULE WARNING - WHELEN 900 SUPER LED-RED

Y\_\_N\_\_

Four (4) Whelen 900 series red super LED warning lights with red lenses and chrome bezels shall be installed, two (2) each module side, outboard of the side module scene lights. These lights shall operate from a switch on the master control console labeled "Flashers".

LIGHTS, INTERSECTION REAR - WHELEN 700 SUPER LED - RED

Y\_\_N\_\_

Two (2) Whelen 700 series red super LED warning lights with red lenses, chrome bezels and water-proof connectors, shall be installed above the rear wheel wells, one (1) on each side. These lights shall operate from a switch on the master control console screen labeled "Flashers".

LIGHTS, WHELEN 600 REAR KICKPLATE

Y\_\_N\_\_

There shall be two (2) Whelen 600 series red LED lights with clear lens mounted in the rear kick plate above the bumper

LIGHTS, SOUND OFF, GHOST

Y\_\_N\_\_

Install two (2) Model #EGHDT1RW Sound off ghost lights on the rear lip of the hood. Separate the lights by approx. 24" and install in a white housing.

MODULE BODY CONSTRUCTION - SEAMLESS

Y\_\_N\_\_

The module shall be fabricated entirely of parts cut and formed from .125" (minimum) thickness 5052-H32 flat aluminum sheet stock, using CNC machines capable of .0004" repeatability. This is the only alloy that may be used for body parts that are welded together.

The roll-cage type interior super-structure, aluminum partition and module shall all be welded together into a single unit to give optimum strength for patient and attendant protection. The module roof shall be designed with a minimum 1.5" crown to facilitate water run off.

The floor, roof, sides, and all exterior doors shall be fabricated from .125" (minimum) thick flat aluminum sheet stock. The exterior joints between the roof and side components shall be continuous full seam welded the entire length of the module. All exterior body panel joints shall be continuous full seam welded.

No VHB bonding tape or other adhesives shall be used in the construction of the ambulance module.

CONNECTIONS, MODULE

Y\_\_N\_\_

The module shall be bolted to the chassis frame rail with (12) 5/8" -11 grade 8 bolts through OEM rubber insulating spacers installed on outriggers at twelve (12) separate locations (six each frame rail), providing noise insulation and easy removal for chassis replacement. The frame mounting bolts shall be properly torqued and secured with Loctite. The system used for fastening the module to the frame shall be that approved by the chassis manufacturer.

ALUMINUM PARTS - MODULE EXTERIOR

Y\_\_N\_\_

All unpainted exterior aluminum parts shall be bright dip anodized after fabrication to retain the finish and increase corrosion resistance.

CORROSION MINIMIZATION - MODULE

Y\_\_N\_\_

All module contact with dissimilar metals shall be minimized with the use of nylon screw-hole inserts to prevent fastener contact with the module body, nylon hinge strips, ceramic coated stainless steel hinge bolts, and ECK brand corrosion inhibitor spray.

DOOR SKINS, OUTSIDE STORAGE COMPARTMENTS - DIAMOND PLATE INTERIOR SKINS

Y\_\_N\_\_

The interior door skins for all outside storage compartments shall be constructed of .063" thick aluminum diamond plate.

DOOR CONSTRUCTION - GASKET PLACEMENT

Y\_\_N\_\_

All exterior hinged module doors shall be constructed in an inverted pan-formed design. The pan shall be constructed from .125" thick 5052-H32 flat sheet aluminum. The exterior door skin shall be constructed of .190" thick aluminum and welded to the pan.

Door gaskets shall be attached to the interior side of the door skin. Gaskets attached to interior door frames are not satisfactory and shall not be accepted.

**EXTERIOR COMPARTMENTS DESIGN**

All exterior compartments shall include these features:

Y\_\_N\_\_

- Sound absorbing polyurethane material shall be sprayed on the inside of all compartments and compartment shelving, slide out trays and closeouts.
- Baffled seep holes shall be provided to prevent water from splashing or seeping into the exterior compartments.
- Full-length, two-way adjustable, stainless steel hinges on all exterior compartment doors with 3/16" stainless steel hinge pins.
- Compartment doors shall be installed, flush with the module body.
- When double doors are provided, each door shall have an exterior handle, but only the forward door shall be lockable. (rearward door is secured when forward door is locked). All exterior compartments and passage doors shall be keyed alike.
- Lockable, Eberhard "free-floating" type chrome plated handles with rotary locks. A gasket shall be installed under each handle to protect the paint.
- Drip rails shall be installed above all exterior compartment doors.

**EXTERIOR COMPARTMENTS, VENTING - ADDITIONAL**

A minimum of nine (9) square inches of venting shall be provided inside the #1, #2, #3, & #4 exterior storage compartments to provide for easier closure of the compartment doors.

Y\_\_N\_\_

**EXTERIOR COMPARTMENTS, VENTING - OXYGEN STORAGE**

A minimum of nine (9) square inches of venting shall be provided in the exterior oxygen storage compartment, to dissipate any leaking oxygen gas.

Y\_\_N\_\_

**EXTERIOR COMPARTMENTS - SWEEP-OUT**

Exterior module compartments shall be of a sweep-out design to aid in facilitation of the purchaser's routine care and cleaning of the vehicle.

Y\_\_N\_\_

All exterior compartment floors, with the exception of the front ALS compartment shall be constructed to be flush with the bottom door frame.

**HANDLES, EBERHARD - CHROME FREE FLOATING TYPE**

Eberhard #EMC-1-2110 chrome "free-floating" handles shall be installed on each exterior module door. The handles shall be large enough to accommodate a gloved hand.

Y\_\_N\_\_

**INSULATION - POLYURETHANE SPRAY FOAM**

The walls, ceiling, passage doors, outside storage doors, the entire underside of the module floor (except for mounting pads), the underside of the outside storage compartments, the wheel wells, and the underside of the curbside step area shall be completely foam - in - place insulated with nominal 3/4" thick sprayed on class I, urethane foam for thermal and acoustical insulation. The insulation shall comply with FMVSS #302 flame spread requirements. The underside of the body shall be properly prepared to ensure adhesion before the spray insulation is applied.

Y\_\_N\_\_

COATING, ACOUSTIC - AUDIOGUARD

Y\_\_N\_\_

The entire underside of the module shall be covered with Audioguard Acoustic material sprayed to the manufacturers recommended thickness.

SOUND DEADENING PACKAGE

Y\_\_N\_\_

Audioguard acoustic coating shall be applied to help reduce structure-born vibrations and associated sound transmission. The entire floor, the left wall, the ceiling, and the left and right panels forward of the partition shall be covered at the manufacturers recommended thickness.

ZTECH UNDERCOATING

Y\_\_N\_\_

The entire underbody (excluding drive shaft, wheels, fuel tank, and 12" either side of exhaust system) shall be sprayed with ZTECH under seal for reduced corrosion.

COATING, CERAMIC THERMAL

Y\_\_N\_\_

Temp-Coat ceramic thermal barrier coating shall be applied to the interior of the module roof after the spray foam application. Material shall be applied to meet or exceed the manufacturers recommended thickness.

THRESHOLD, STAINLESS STEEL - EXTERIOR STORAGE COMPARTMENT

Y\_\_N\_\_

Each exterior storage compartment with a hinged door shall have a stainless steel lower threshold at the door opening to protect the paint as equipment is installed and removed from the compartment.

OUTSIDE STORAGE #1-O2 CYL. STORAGE- FWD STR. SIDE -ONE SHELF

Y\_\_N\_\_

#1 (forward street side compartment) shall have an 81.75" high x 17.75" wide clear door opening with 82.75" high x 22.25" wide x 20.75" deep interior dimensions. This compartment shall provide storage for one (1) "M" or "H" oxygen cylinder. This compartment shall have one (1) adjustable shelf located above the oxygen cylinder. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door keyed the same as all other exterior compartments. A spring-loaded, hinged acrylic door shall be provided to allow access from inside the patient compartment to the oxygen cylinder valve. A 9-square inch vent shall be provided in the oxygen storage compartment to permit leaking gas to dissipate to the exterior of the vehicle. The oxygen cylinder shall be secured with a minimum of four (4) restraining devices, meeting AMD standard 003, oxygen tank retention system requirements. A cylinder changing wrench shall be provided and secured inside the oxygen cylinder compartment. The oxygen cylinder shall be provided by the purchaser.

OUTSIDE STORAGE #2 - STREETSIDE CENTER - ONE (1) SHELF

Y\_\_N\_\_

#2 (street side center compartment) shall have a 40.25" high x 45.75" wide clear door opening with double doors and shall have 43.75" high x 50.00" wide x 20.75" deep interior dimensions. This compartment shall have one (1) adjustable shelf. One (1) fuse holder shall be installed on the inner door skin of the forward compartment door. The doors shall be held open with two (2) spring loaded gas cylinders. This double door compartment shall have a handle on each door. A locking handle shall be installed on the forward door.

OUTSIDE STORAGE #3 - STREETSIDE REAR - (1) SHELF & ROLL UP DOOR

Y\_\_N\_\_

#3 (street side rear compartment) shall have a 59.25" high x 30.00" wide clear door opening with 65.25" high x 32.75" wide x 20.75" deep interior dimensions. The compartment shall have outside access and one (1) adjustable shelf. The compartment door shall be roll up door. A locking handle shall be installed on the exterior of the door.

OUTSIDE STORAGE #4A BOARD/SCOOP, #4B TWO (2) SHELVES - RT RR

Y\_\_N\_\_

#4 (rear curbside compartment) shall have split compartments (#4A / #4B), with an 81.75" high x 21.75" wide clear door opening: compartment #4A shall have 82.75" high x 15.00" wide x 20.00" deep interior dimensions.

Compartment #4B shall have 82.75" high x 13.50" wide x 20.00" deep interior dimensions. The compartment shall be equipped with two (2) adjustable shelves. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door.

**OUTSIDE STORAGE #5 - CURBSIDE FORWARD**

#5 (forward curbside compartment) shall have a 47.50" high x 17.50" wide clear door opening. The compartment provides inside/outside storage, and shall have two (2) adjustable shelves. (reference the lower front wall cabinet in patient compartment features section for interior dimensions). The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door.

Y\_\_N\_\_

**BATTERY STORAGE COMPARTMENT WITH SLIDE OUT TRAY - CURBSIDE**

A compartment shall be located in the front curbside corner of the module with a heavy duty slide-out drawer. The compartment door shall be located above the front rub rail, and hinged on the forward edge. A locking handle shall be installed on the exterior of the door. All outside storage compartments shall be keyed the same.

Y\_\_N\_\_

**ZICO SCBA HOLDERS TWO (2)**

Two (2) Zico SCBA holders shall be provided and installed in OSS #3 in the back corners of the compartment. The brackets shall be mounted on 45 degree brackets. Model number to be determined at pre-construction meeting.

Y\_\_N\_\_

**DOCK BUMPERS, REAR**

Formed hard rubber dock bumpers shall be attached to the rear bumper.

Y\_\_N\_\_

**DOOR SLIDING - MODULE CURBSIDE PASSAGE**

The module body shall include a sliding side entry door to access the curbside of the patient compartment. The door shall slide out and towards the rear of the module body. The door design must meet FMVSS 206 for sliding doors and shall have been cycle tested in excess of 100,000 cycles. The door shall not extend out more than 5 1/4" from the module when in the open position and shall be flush in the closed position. The door shall operate on a total of nine (9) casters and three (3) tracks for ease of operation. The door shall be held closed with two (2) rotary latches and two (2) locking tabs. The door must have a system to prevent the door from self closing, when unit is parked on an incline. A measured force of ten (10) pounds maximum shall be required to release the door from the open to closed position. A chrome locking handle shall be installed on the exterior of the door. The door shall be lockable from the inside and outside and shall shut on molded air-core, automotive type door seals to prevent any water from leaking into the vehicle interior. A drip rail shall be installed above the door.

Y\_\_N\_\_

**Documentation required:**

The bidder must submit with this bid proposal a listing of not less than 200 ambulances produced with curbside sliding doors in the past four years. The listing is to include a production order number, the purchaser's agency name, and date the ambulance equipped with the curbside sliding door was delivered.

Failure to provide the required documentation shall be considered as non-responsive.

**DOORS, REAR PASSAGE**

There shall be a 47.50" wide x 59" high rear door opening in the patient compartment. The doors shall be flush without a protruding flange or lip. The right rear passage door shall have a lockable, chrome exterior handle. The left rear door shall have a non-locking, chrome exterior handle. All handles shall be installed with a gasket to protect the paint. The hinge shall be full length stainless steel with a 3/16" stainless steel hinge pin and shall be two-way adjustable. Each rear door shall have a two point slam action automotive type rotary latching system to the body.

The right rear door shall lock to the body at the top and bottom, not to the left rear door. The doors shall have .213" steel door latch activator rods with turn buckle adjusters. The doors shall be lockable from the inside and outside.

Y\_\_N\_\_

All doors shall shut on molded, air-core, automotive type door seals to prevent any water from leaking into the vehicle interior. Each door shall have an access port adjacent to the rotary locks.

**DRIP RAILS, SIDE**

Full length anodized aluminum drip rails shall be affixed to both upper sides of the module. The drip rails shall be attached to the module sides without the use of screws or rivets.

Y\_\_N\_\_

**FENDERETTES - POLISHED ALUMINUM**

Polished aluminum fenderettes shall be installed around the rear wheel well openings.

Y\_\_N\_\_

**FUEL FILL PROTECTOR - STAINLESS STEEL**

An stainless steel fuel fill protector shall be provided and installed.

Y\_\_N\_\_

**HOLD-OPEN, REAR DOORS - CPI GRABBERS**

Cast Products door grabbers (1 pair) with hard rubber inserts shall be installed on the rear doors, permitting a door hold open position of 180 degrees.

Y\_\_N\_\_

**LICENSE PLATE HOLDER - CPI CAST RECESSED WITH DUAL LIGHTS**

A Cast Products license plate holder shall be installed on the rear of the module located on the rear kick plate centered under the rear doors. The holder shall be recessed into the kickplate and shall have dual lights, which activate with the chassis headlamp switch.

Y\_\_N\_\_

**LOCKS POWER - PASSAGE, COMPARTMENTS, HIDDEN SWITCH-FOB REMOT**

Power door locks shall be included on module passage doors and five (5) outside storage compartments. The locks shall be activated from the interior of the rear door and the curbside doorway, as well as the OEM chassis cab door switches. An exterior unlock switch shall also be included and hidden in the cab grille area. A keyless entry system shall be installed. The system shall operate with the OEM key fobs to lock/unlock all chassis and module doors.

Y\_\_N\_\_

**MUD FLAPS, REAR - BLACK RUBBER**

Black rubber mud flaps with a minimum 1/4" thickness shall be bolted to the underside of the module behind the rear wheels. The width and length of the flaps shall provide adequate coverage of the rear dual wheels of the chassis.

Y\_\_N\_\_

**REAR STEP/BUMPER -FLIP-UP CENTER SECTION - ANODIZED**

The rear bumper shall be affixed to the chassis frame. The bumper shall be constructed with a hinged center section of aluminum grip strut material. Two (2) steel braces shall secure the step to the chassis frame. The outer 17" on each end of the bumper shall be constructed from heavy gauge stamped polished stainless steel bumper parts and shall provide smooth rounded corners. The remainder of the step shall be constructed of .125" thick aluminum diamond plate. Two (2) rear LED step illumination lights shall be provided. All diamond plate surfaces shall be bright dip anodized. Rear step installation shall comply with AMD standard 018. A strip of black PVC shall be installed on the face of the step to protect the patient cots during loading.

Y\_\_N\_\_

**RUB RAILS, ANODIZED ALUMINUM, 5/8" BLACK REFLECTIVE MATERIAL**

Bright dip anodized polished aluminum rub rails shall be installed on the lower sides of the body below the outside compartment sill areas. The rub rails shall be offset 3/16" from the body to facilitate wash down of road debris the rub rails shall incorporate a recessed 5/8" wide black reflective scotchlite safety accent stripe.

Y\_\_N\_\_

**STEPWELL, CURBSIDE DOORWAY - MID STEP AREA**

An aluminum diamond plate step well and mid-level step shall be installed in the curbside doorway threshold area.

Y\_\_N\_\_

**STONE GUARDS, MODULE FRONT - ANODIZED DIAMOND PLATE (24" H)**

Y\_\_N\_\_

Bright dip anodized aluminum diamond plate stone guards shall be installed on the lower 24" of the module front, one (1) each side. These stone guards shall be 14" wide.

**KICKPLATE/THRESHOLD, REAR DOORWAY - ANODIZED DIAMOND PLATE**

Y\_\_N\_\_

A bright dip anodized aluminum diamond plate kick plate shall be installed at the rear exterior doorway, providing a kick / scuff plate at the rear of the vehicle above the rear step.

**TOW HOOKS, MODULE REAR**

Y\_\_N\_\_

Two (2) tow hooks shall be provided in the rear step area and shall be securely fastened to the vehicle frame.

**WINDOW, 13" x 33" CURBSIDE FIXED MODULE**

Y\_\_N\_\_

A tinted 13" x 33" non-openable (fixed window) shall be installed on the curbside of the patient compartment module.

**WINDOWS, PASSAGE DOOR - (CURB SLIDING, REAR FIXED)**

Y\_\_N\_\_

The curbside passage door shall have a 16" x 23" openable (*sliding*) window with removable screen. Each rear passage door shall have a 19" x 18" non-openable window. The distance between the rear window glass shall not exceed 6" to assure maximum vision to the rear. The windows shall have a 69% dark tint and shall be secured with black oxide coated fasteners. No warning lights shall be blocked from view when the curbside or rear doors are open.

**TURTLE TILE MATTING (LT GRAY) - BOTTOM OF OUTSIDE COMPARTMENTS**

Y\_\_N\_\_

Lt. Gray Turtle tile matting with ramps shall be installed in the bottoms of outside storage compartments #1, #2, #3, #4, and #5 to ensure proper ventilation of the compartment and stored equipment.

**MODULE - FLASHLIGHTS**

Y\_\_N\_\_

There shall be two (2) Streamlight L.E.D Vulcan flashlights installed in OSS #3. One shall be mounted on the forward wall and one on the rear wall.

**ROUNDED INTERIOR CORNERS**

Y\_\_N\_\_

Interior vertical edges shall have rounded corners in the following locations: forward and aft edges of the CPR seat, the wall at the aft end of the squad bench, the partition opening cabinet edges and the upper front wall cabinet.

**CABINET CONSTRUCTION - INTERIOR - ALUMINUM**

Y\_\_N\_\_

All interior cabinets shall be constructed of .090" thick welded aluminum. Wood products shall not be used in the construction of any interior cabinet. All cabinet exteriors, interiors, drawer fronts, drawer interiors, and aluminum doors shall be sealed with a washable sprayed-on multi-use polychromatic coating.

**CABINET DOORS - BRONZE ACRYLIC**

Y\_\_N\_\_

All sliding cabinet doors shall be nominally 1/4" thick light bronze acrylic material. The sliding cabinet doors shall be installed in aluminum track lined with PPL inserts to eliminate rattles and prevent the doors from opening during transit. An edge mounted aluminum handle shall be installed on each sliding cabinet door.

**LATCHES CABINET- BLACK**

Y\_\_N\_\_

All interior hinged cabinet doors and drawers shall be secured with black locking latches.

**CABINETS/ WALLS - POLYCHROMATIC COATING - CAMILLE WHITE**

Y\_\_N\_\_

All exposed side walls, the partition wall (on the patient compartment side only), the headliner, along with the cabinet and drawer fronts, aluminum doors, cabinet and drawer interiors shall be covered with a washable white sprayed-on multi-use polychromatic coating, to create a laminate-*free* interior.

**CABINET - LEFT WALL, UPPER REAR #1 - RESTOCKING HINGE (UP)**

Y\_\_N\_\_

The left wall, upper rear interior cabinet (#1) shall have a door opening of 15.25" high x 35.00" wide with interior dimensions of 17.75" high x 37.00" wide x 17.25" deep. The cabinet shall be enclosed by one (1) set of sliding acrylic doors, attached to a flip-up restocking frame with gas filled hold-open shocks. The cabinet shall contain a center divider with one (1) adjustable shelf, each side.

WALL - ATTENDANT CONTROL PANEL

The color micro processor screen shall be installed to the immediate right of the attendant's seat.

Y\_\_N\_\_

CABINET, LEFT WALL - UPPER (#2/#3) OVER PRIMARY ACTION AREA - RESTOCKING HINGE

The left wall, interior upper cabinet (#2/#3), above the attendant control panel, shall have a door opening of 20.00" high x 49.25" wide with interior dimensions of 22.50" high x 51.25" wide x 17.25" deep. The cabinet shall be enclosed by one (1) set of sliding acrylic doors attached to a flip-up restocking frame with gas filled hold-open shocks. The cabinet shall contain a center divider with two (2) adjustable shelf, each side.

Y\_\_N\_\_

CABINET - LEFT WALL, LOWER UNDER SECOND ACTION AREA #4

The left wall, lower rear interior cabinet (#4), below the second action area shall have a door opening of 12.00" high x 17.00" wide with interior dimensions of 14.00" high x 20.00" wide x 16.25" deep. This compartment shall be enclosed by one (1) set of sliding acrylic doors. The compartment shall be equipped with one (1) adjustable shelf and a blanket warmer shall be installed in the base of the cabinet.

Y\_\_N\_\_

PRIMARY ACTION AREA

The primary action area shall be located beside the attendant seat with work area dimensions of 17.50" high x 50.25" wide x 17.00" deep.

Y\_\_N\_\_

SECONDARY ACTION AREA

The secondary action area shall be located to the rear of the CPR seat with work area dimensions of 20.00" high x 20.75" wide x 17.00" deep. There shall be a Phillips P-300 bracket installed.

Y\_\_N\_\_

DRAWER - SLIDE-OUT INTERIOR

A slide-out drawer shall be provided in the curb side under the forward area of the bench seat. The drawer shall be constructed of .090" thick aluminum. The drawer interior dimensions shall be 6.00" high x 16.00" wide x 10.00" deep. The drawer shall be secured with one (1) locking lever latch.

Y\_\_N\_\_

COUNTER TOP - SOLID ACRYLIC - BLANCA GRANITE (WHITE)

A Meganite solid acrylic counter top, Blanca Granite (White) #701, with a 1/2" lip shall be installed to prevent equipment from sliding off. The solid acrylic counter top shall be provided on both the primary and secondary action area counters, fore and aft of the CPR seat.

Y\_\_N\_\_

CABINET - FRONT WALL, LOWER #3

The front wall lower cabinet (#3) shall have a door opening of 28.25" high x 26.50" wide with interior dimensions of 35.50" high x 31.50" wide x 23.00" deep. This cabinet shall provide inside/outside access and shall have two (2) adjustable shelves on Unistrut adjustable track brackets. Two (2) equally spaced clear lights mounted in a removable panel will provide illumination in this compartment. There shall be aluminum beveled ramp edging installed on two edges of each shelf. There shall be a Robinson locking roll up door provided for interior access.

Y\_\_N\_\_

CABINET - FRONT WALL, LOWER BELOW PDQ - HINGED O2 TIP-OUT DOOR

The compartment below the power distribution cabinet and behind the attendant seat, shall have one (1) bottom hinged aluminum door secured by a black locking lever latch. A storage bracket shall be installed on the door to accommodate two (2) "D" oxygen cylinders. The "D" cylinders shall be provided by the customer.

Y\_\_N\_\_

PASS THROUGH - CAB TO MODULE

Y\_\_N\_\_

A window opening shall be provided in the rear of the cab to accommodate pass-through communications to the patient compartment. A bellows shall be provided to connect the cab to the module.

**CABINET - RIGHT WALL, REAR WITH (1) DOOR, INSIDE/OUTSIDE**

Y\_\_N\_\_

A storage compartment (#1) shall be provided to the rear of the squad bench and shall be constructed of .125" thick aluminum. The compartment shall face the patient compartment aisle and have a door opening of 30.00" high x 7.25" wide with access to the rear outside storage compartment. The compartment shall be enclosed by a 3/8" thick, hinged acrylic door with etched design, etched hinge area, and latch.

**CABINET - RIGHT WALL, BEHIND SQUAD BENCH - RESTOCKING HINGE**

Y\_\_N\_\_

A cabinet shall be installed on the curbside below the fluorescent lights. This cabinet shall be enclosed by one (1) set of sliding acrylic doors attached to a flip-up restocking frame with gas filled hold-open shocks. The compartment shall contain a center divider with one (1) adjustable shelf, each side. The squad bench back pads shall be built out flush with the cabinet face to provide additional comfort for occupants of the squad bench.

**SQUAD BENCH STORAGE (COMPARTMENT #2)**

Y\_\_N\_\_

A storage area shall be provided in the squad bench base (compartment #2). The interior dimensions of the storage area shall measure 14.25" high x 72.75" wide x 21.00" deep.

**ATTN SEAT - EVS HiBAC, 3 PT W/ INTEGRAL CHILD, SWIVEL BASE**

Y\_\_N\_\_

A rear facing EVS HiBac safety attendant seat with built in child seat and 3 point seat belt shall be provided at the head of the cot. The seat shall be covered with color coordinated vinyl upholstery material and equipped with an automatic retractable safety seat belt. The attendant seat shall be mounted on a swivel base

**CPR SEAT - FIXED**

Y\_\_N\_\_

A CPR seat shall be installed on the street side of the patient compartment aft of the main action area counter. The seat, backrest, and sides of the seat shall be covered with color coordinated, cushioned vinyl. The seat shall be equipped with a red automatic locking, retractable seat belt.

**SQUAD BENCH - BASE & LID**

Y\_\_N\_\_

The squad bench base shall be constructed of .090" thick aluminum for maximum storage capacity and minimum weight.

The face of the squad bench shall be covered with vinyl flooring material. The interior of the squad bench shall be sprayed with sound absorbing polyurethane material. Automatic locking, retractable red seat belts shall be provided for three (3) people while seated on the squad bench or for one (1) person lying down.

The squad bench lid area shall be 15.75" wide x 72.00" long. The padded cushion shall be 15.50" wide x 58.75" long. The squad bench cushion shall be covered with color coordinated vinyl upholstery material and shall be one-piece, liftable on a full length continuous hinge. The squad bench cushion upholstery shall be sewn with seams only at the vertical corners to minimize entrapment of fluids. An automatic latching fastener shall be installed to secure the squad bench lid in the closed position.

**HOLD OPENS, SQUAD BENCH LID - GAS CYLINDERS**

Y\_\_N\_\_

Two (2) gas cylinders hold -opens shall be provided and installed to hold the cushion in the open and closed position.

**ASPIRATOR / SUCTION - IMPACT# 324 - SELF CONTAINED - COUNTER**

Y\_\_N\_\_

An Impact #324 suction system with built-in pump shall be installed on the action wall counter near the attendant's seat. This system shall be self-contained and shall include a 6 foot section of suction

tubing, and two (2) 1200 ml disposable canisters. The disposable canisters shall contain a bacterial filter and overflow shutoff valve. The system shall be activated by a switch on the attendant control panel. The aspirator pump exhaust shall be vented to the exterior of the vehicle. The pump performance shall comply with KKK-A-1822F requirements.

ASSIST HANDLES, (2) 'V' ANTI-MICROBIAL (YELLOW), (4) BLACK

A total of six (6) assist handles shall be provided: two (2) 1-1/4" diameter Yellow Anti-microbial stainless steel 'V' handles, one (1) on each rear passage door; and four (4) 10-7/8" black vulcanized rubber with steel core assist handles, two (2) handles at the rear doorway, one (1) at the curbside doorway, and one (1) on the curbside sliding door.

Y\_\_N\_\_

CLOCK - DIGITAL- INTELLITEC 12VDC MULTI FUNCTION - FT SQ BEN

An Intellitec 12 vdc digital multi function clock shall be installed on the curbside forward facing wall at the foot end of the squad bench.

Y\_\_N\_\_

COT SAFETY HOOK - STRYKER

A Stryker cot rear capture / safety hook shall be provided and installed. Exact location and model to be determined at the pre-construction meeting.

Y\_\_N\_\_

COT FASTENER - STRYKER CENTER POSITION W/EXPANDED COT PLATES (FUTURE POWER LOAD)

A Stryker crash stable, single-position (center mount) cot fastener shall be installed on the module floor to accommodate a Stryker series cot. 3/8" thick aluminum tapping plates shall be installed below the aluminum floor to secure the cot floor mounting plates and of sufficient dimensions for the future installation of a purchaser supplied/installed Stryker Power Load patient cot system.

Y\_\_N\_\_

EMBLEMS / SIGNS - REAR PATIENT COMPARTMENT

Two (2) "No Smoking / Oxygen Equipped / Fasten Seat Belts" signs shall be provided. One (1) sign shall be installed in the cab and one (1) above the oxygen outlets in the patient compartment street side cabinet.

Y\_\_N\_\_

EXHAUST VENTILATOR, 3-SPEED - MULTIPLEX ELECTRIC SYSTEM

A three-speed, 300 CFM (minimum) exhaust fan meeting KKK-A-1822F requirements shall be provided and located in the street side cabinet in the patient compartment. The exhaust fan shall be pulse width modulated from a switch on the attendant control panel vista screen. The exhaust system shall have a louvered grille inside and a chrome vent outside. The exhaust system shall vent through the side of the vehicle, not through the roof.

Y\_\_N\_\_

FLOOR CONSTRUCTION- PATIENT COMPARTMENT, NON-WOOD COMPOSITE

The sub-floor in the patient compartment shall be constructed of .125" thick aluminum over .125" and .190" thick reinforcing hat sections and mounting laterals. The aluminum sub-floor shall be covered with a single piece of 3/4" **non-wood composite material**. All corner molding, edging and trim shall be anodized aluminum or stainless steel and shall be sealed to prevent fluids from seeping under the cabinets.

Y\_\_N\_\_

Wood floors are not satisfactory and shall not be accepted by the purchaser.

FLOORING - COVE

The patient compartment floor radius shall be coved with pre-formed floor coving material. The coving shall be installed behind the vinyl floor covering, along both the street side and curbside walls.

Y\_\_N\_\_

GLOVE, DISPENSER - (3) BOX - ABOVE ENTRY DOOR - CURBSIDE

A three (3) - box glove dispenser unit, with a clear plexi hinged access panel with three (3) cut-outs, shall be recessed above the curbside entry door. The dispenser shall be 8.25" high x 33.50" wide with interior dimensions of 5.38" high x 30.25" wide x 3.25" deep.

Y\_\_N\_\_

GRAB RAILS, 1-1/4" DIAMETER, ANTI-MICROBIAL(YELLOW) 96" AND 64"

Two (2) 1-1/4" diameter yellow Anti-microbial grab rails shall be installed on the ceiling of the patient compartment. One (1) 64" rail shall be installed over the squad bench area and one (1) 96" rail

Y\_\_N\_\_

shall be installed over the patient cot area for attendant/patient balance control. The 96" grab rail will be attached to the ceiling with three (3) mounting brackets that secure it to the super structure of the module. Installation of each grab rail shall comply with AMD-008 requirements.

**HEADLINER - REAR PATIENT COMPARTMENT**

The headliner in the patient compartment shall be one-piece, seamless, .090 thick aluminum finished with sprayed-on multi-use polychromatic coating.

Y\_\_N\_\_

**HEATER / AC - CENTER OF CEILING - DUCTED**

A high capacity 580 CFM heater/air conditioner system with 36,000 BTU heating capacity and 30,000 BTU cooling capacity and with a 10-speed blower controlled through, the pulse-width-modulated output of the microprocessor based electrical system, shall be provided for high volume air movement with minimal noise. The heater/air conditioner air return shall be filtered to minimize contamination of the heater/air conditioner cores. The cab and module environmental systems shall be simultaneously capable of heating in the front while cooling in the rear and vice-versa. A thermostatically controlled rear system shall be provided for heating and air conditioning the patient compartment.

Y\_\_N\_\_

The temperature, whether heating or cooling, shall be controlled by a thermostat built into the attendant control panel screen, located in the street side cabinet and from the cab master control console screen. Heating and cooling may be selected automatically or manually. The heater/air conditioner system shall function only when the ignition system and the module power switch are on. The rear heater shall have EPDM/Nomex heater hoses. The rear air conditioner shall have barrier air conditioner hoses for R-134A refrigerant. Full module HVAC controls shall be located on both the rear ACP screen and the cab MCC screen.

The module heat and ac system shall be installed in the upper portion of the front wall. Five (5) two-way adjustable heat/ac vents shall be installed in a duct, along the center of the ceiling in the patient compartment. The access panel for servicing the heater/ac shall be located on the upper partition wall.

**I V HANGERS - CEILING RECESSED - CAST PRODUCTS #IV2008-1 (4)**

Four (4) Cast Products #IV2008-1 recessed, dual, ceiling I.V. hangers shall be provided. One (1) installed near the street side above the cot area, and one (1) near the curbside above the squad bench area. Two (2) other locations to be determined at pre-construction meeting.

Y\_\_N\_\_

**BLANKET WARMER - LOCATED INSIDE (2) INTERIOR CABINET**

Two (2) Blanket warmer plates and adjustable thermostats shall be provided in the patient compartment of the unit. The location of this warmer shall be left wall cabinet #4 and front wall drawer #4.

Y\_\_N\_\_

**LONPLATE II, NON-SLIP EMBOSSED SM. GRID - GUNMETAL #424**

The floor in the patient compartment shall be covered with Lonseal brand "Lonplate II" non-slip; small grid (embossed) Gunmetal #424, resilient sheet vinyl flooring material, which shall be coved 3-inches up the wall on the street side, and to the top of the squad bench base on the curbside. The flooring material shall be stripped and waxed before delivery.

Y\_\_N\_\_

**NET, SQUAD BENCH - CURBSIDE INTERIOR (RED)**

A removable net shall be installed at the forward end of the curbside squad bench. The net shall be red in color and constructed of safety belt webbing material. The net shall be anchored to the curbside wall, ceiling, and the forward end of the squad bench into .50" thick aluminum tapping plates. The net shall be removable for cleaning, via the use of seatbelt type buckles.

Y\_\_N\_\_

**OXYGEN OUTLETS (3) WALL - OHIO MEDICAL TYPE**

Three (3) Ohio Medical flush mounted, quick release wall outlets shall be installed. Two (2) in the forward street side cabinet action are and one (1) shall be installed in the wall above the squad bench.

Y\_\_N\_\_

**OXYGEN OUTLET (1) CEILING - OHIO MEDICAL TYPE**

Y\_\_N\_\_

One (1) Ohio Medical flush mounted, quick release oxygen outlet shall be installed in the ceiling above the head of cot in the center mount position.

**FLOW METER, OXYGEN - THORPE STYLE**

One (1) Thorpe style oxygen flow meter (15LPM) shall be shipped loose with the completed vehicle.

Y\_\_N\_\_

**OXYGEN SYSTEM, ELECTRIC - MULTIPLEX ELECTRIC SYSTEM**

A 12 VDC controlled electric O2 system operated through the V-MUX multiplex electrical system shall be provided and installed.

The oxygen system shall be completely installed and include a pre-set oxygen regulator with a cylinder pressure gauge and a 200 PSI safety valve with all necessary piping and connections. The oxygen system shall be completely low pressure, and the regulator shall be fastened directly to the cylinder. The regulator shall be set to operate at approximately 50 PSI. The oxygen cylinder shall be installed so the system may be easily turned on and off at the main cylinder valve from the patient compartment.

Y\_\_N\_\_

The oxygen system monitor shall be readily available to the attendant while seated at the head of the cot as part of the microprocessor based electrical system. Flexible conductive oxygen hose with a minimum 900 lbs. burst rating shall be installed between the regulator and the oxygen receptacles. The system shall be tested and tagged in conformance with NFPA-56-F and KKK-A-1822F.

The electric oxygen system shall be provided with an on/off switch on the attendant control panel screen. The emergency manual bypass valve shall be located near the oxygen storage compartment in the patient compartment. The oxygen tank shall be provided by the purchaser.

**PADDED EDGING PROTECTION**

Padded corner edging shall be installed where necessary on exposed corners and edges in the patient compartment for patient and attendant protection.

Y\_\_N\_\_

**PADS, HEAD AND BACK**

Vinyl upholstered, foam cushioned head/back pads shall be installed as follows: the lower edge of the upper front wall cabinet (above the partition doorway or window), above the rear doors, above the side door, on the street side wall behind and each side of the CPR seat, and on the curbside wall behind the squad bench. The pads shall be covered with a flame retardant color coordinated vinyl upholstery material.

Y\_\_N\_\_

**RADIO SPEAKERS, STREETSIDE (OEM RADIO & ACP FADER CONTROL)**

Two (2) stereo speakers shall be installed in the upper streetside side panel. The fader control for the rear speakers shall be provided through the OEM radio and a fader control located in the ACP.

Y\_\_N\_\_

**SHARPS WITH RECESSED LOCKING HINGED DOOR**

A recessed locking sharps container with hinged disposal door shall be located in the wall below the action area.

Y\_\_N\_\_

**STAINLESS STEEL WALL PROTECTION - SQUAD BENCH BASE**

A full-length brushed stainless steel panel shall be installed on the face of the squad bench base, and extend up to the bottom of the squad bench lid.

Y\_\_N\_\_

**DOOR PANELS - MODULE PASSAGE DOORS - VINYL**

The inner door panels shall be covered with color coordinated padded vinyl upholstery material.

Y\_\_N\_\_

**STAINLESS STEEL PROTECTOR -PASSAGE DOORS - LOWER DOOR PANELS**

A brushed stainless steel panel shall be installed on the interior lower portion of each passage door. The top of the stainless steel shall be installed beneath the upper door panel.

Y\_\_N\_\_

**STAINLESS STEEL WALL PROTECTION - INTERIOR STREETSIDE**

Y\_\_N\_\_

A brushed stainless steel panel shall be provided on the street side wall from the bottom of the CPR seat cushion down to the flooring material to protect this area when the cot is taken in or out of the vehicle.

HOLDER / SWIVEL BASE FOR PHILLIPS (FERNO P-300)

An Ferno model P-300 holder for Phillips monitor with swivel base shall be provided with the vehicle. The location shall be in the second action area.

Y\_\_N\_\_

TURTLE TILE - SKID-RESISTANT MAT, CURBSIDE STEPWELL

Skid resistant charcoal gray turtle tile matting shall be installed in the curbside step well.

Y\_\_N\_\_

UPHOLSTERY - SPRADLING "ARCTIC" CHARCOAL #9017

All cushions, head pads, door panels and seats shall be covered with Spradling International "Arctic" Charcoal #9017 expanded vinyl upholstery material. The arctic vinyl and all foam cushion material shall comply with FMVSS #302 flame spread requirements.

Y\_\_N\_\_

PATIENT COMPARTMENT - CURB SIDE WORK AREA

On the forward head end of the squad bench there shall be a flat aluminum area approximately 14 inches wide with an edge to provide a work area. The top of the work surface shall be level with the bench seat cushion. the aluminum work surface shall be covered in the same polyurethane coating used in the rest of the patient compartment.

Y\_\_N\_\_

PATIENT COMPARTMENT - TAPERED FLOOR

The rearward section of the patient compartment floor shall be tapered approximately 3.5 inches. The cot loading height shall not be more than 34.00 inches.

Y\_\_N\_\_

PATIENT COMPARTMENT - CURB SIDE WASTE BASKET

There shall be a waste basket attached to the forward head end of the squad bench under the cargo retention net.

Y\_\_N\_\_

PATIENT COMPARTMENT - SHARPS CONTAINER 5 QT

There shall be a 5 qt mailbox style sharps container mounted at the foot end of the squad bench on the rear wall under the clock. The container shall be mounted high enough to allow a back boarded patients feet to clear under the sharps container.

Y\_\_N\_\_

PATIENT COMPARTMENT - REMOVEABLE ACCESS PLATE

On the curb side exterior wall there shall be a removeable plate for radio wires. This shall be located under the oxygen outlet and forward of cabinet #1

Y\_\_N\_\_

CABINET, LEFT WALL #1A

On the left wall over the CPR seat there shall be cabinet #1A. The door opening shall be 6.50 high and 25.00 wide. Interior dimensions 6.50 high, 25.00 wide, and 17.25 deep. There shall be a lift up acrylic door with flush pull latch. There must be 43.00 inches of head room below #1A to be compliant with current MA DPH Regulations

Y\_\_N\_\_

CABINET, FRONT WALL #1

Cabinet #1 shall be located on the front wall to the curb side of the heater/AC unit and above cabinet #2 there shall be an aluminum flip up door with a hold open device. There shall be one adjustable shelf inside. The door shall secure with a Simplex combination lock and have a "D" handle. Door opening dimensions 15.25" high and 13.00" wide. Interior dimensions 17.75" high, 13.25" wide, and 17.00" deep.

Y\_\_N\_\_

CABINET, FRONT WALL #2

Cabinet #2 shall be located on the front wall below cabinet #1 and above Cabinet #3. Door opening 12.50" high and 26.25" wide. The flip down aluminum door shall be secured with two (2) Southco M1

Y\_\_N\_\_

latches and a Simplex combination lock. There shall be steel cables to prevent the door going past a horizontal position. Interior dimensions 12.50" high, 26.25" wide, and 20.00" deep.

FRONT WALL SLIDE OUT

Y\_\_N\_\_

Located in the area to the left of cabinet #3 and to the right of the tip out oxygen storage ther shall be a slide out tray mounted on the floor to secure a dealer supplied Engel MHD 13 cooler.

FRONT WALL, DRAWER #4

Y\_\_N\_\_

Located under the pass through there shall be an aluminum counter with a lip to keep items from rolling off the counter. Below the counter there shall be a pull out drawer with interior dimensions of 5.00" high, 15.00" wide, and 16.00" deep. The draw shall be secured with a Southco pull latch. The drawer will have a blanket warmer in the base and a 12V DC outlet.

PPG PAINT PROCEDURE

Y\_\_N\_\_

All non-anodized aluminum module body surfaces shall be completely chemically steam cleaned, filled with premium body filler as needed, sanded smooth and primed with F-3963 etching primer and then primed again with F-3980 high solid primer.

The cured primer surfacer shall be DA sanded with 320 grit and cleaned with DX-330. F-3980 high solid primer shall then be applied, where needed, as a sealer.

CLEAR COATING - MODULE PAINT

Y\_\_N\_\_

The entire module shall be clear-coated, using a PPG process, sprayed over the final paint coat.

BUFFING, PAINT - MODULE

Y\_\_N\_\_

The paint on the module sides shall be buffed to a high shine using a recommended paint buff system.

PAINT MODULE ALL ONE SOLID COLOR, PLUS CLEAR COAT

Y\_\_N\_\_

The entire module shall be sprayed one-color and then clear coated. The red PPG paint code and color will be provided at the pre-construction meeting.

DOOR REFLECTIVITY

Y\_\_N\_\_

Reflective material (25" x 2.5" red/silver chevron style) meeting FMVSS 108 requirements shall be installed on the lower interior stainless steel panel of each rear door and hinged side door.

If a sliding side door is provided, it shall have a 1.50" x 40.00" white reflective stripe installed on the rear facing edge.

KKK-A-1822-F CERTIFICATION PACKAGE

Y\_\_N\_\_

KKK-A-1822F certified ambulance shall include the following items (unless specified otherwise by the customer and waiver letters are submitted from the state certifying agency):

- Automatic Charger / Conditioner Label in cab
- Two (2) Portable equipment charging circuit leads
- KKK-A-1822F warning light system
- KKK-A-1822F warning light flash pattern with primary/secondary modes
- Fuel fill splash plates
- Drip rails around the entire modular body
- Twelve (12) disposable plastic trash liners
- Locks for roll up doors
- Two (2) 5# ABC fire extinguishers with mounting brackets - shipped loose
- Scotchlite Stripe
- KKK-A-1822F lettering and decal package (installed)

- Graphics package to match existing ambulances

A KKK-A-1822F certification sticker, electrical load analysis sticker and payload sticker shall be installed in the oxygen compartment. Any deviations from KKK-A-1822F shall be listed in the vehicle delivery packet with a notation on the certification sticker.

KKK-A-1822F COMPLIANCE

Y\_\_N\_\_

A KKK-A-1822F compliance sticker, electrical load analysis sticker, and payload sticker shall be installed in the oxygen compartment. Any deviations from KKK-A-1822F shall be listed in the vehicle delivery packet with a notation on the-compliance sticker.

VEHICLE MANUALS (1) PACKAGE SET

Y\_\_N\_\_

One (1) Delivery Manual Package shall be supplied with the vehicle, and shall include the following items:

- Ambulance manufacturer parts, service and operation manuals
- OEM chassis owner's guide
- Complete 12 VDC and 125 VAC wiring schematics for all included standard and optional systems
- Multiplex Electrical system programming - electronic media

WARRANTIES

Y\_\_N\_\_

MANUFACTURER WARRANTIES: The ambulance manufacturer shall provide Warranty coverage as follows:

- A. Structural Module Warranty - Limited Life Time
- B. Ambulance Conversion Warranty - 2 Years/30,000 Miles
- C. Electrical Warranty (Multiplex-based systems) - 7 Years/ 84,000 Miles
- D. PPG Paint Warranty - This warranty covers the areas of the ambulance body finished with specified PPG products for a period of 7 years or 84,000 miles which ever occurs first, from the date the vehicle is delivered to the owner. The first four years or 48,000 miles are covered at 100% parts and labor. The fifth year or up to 60,000 miles is covered at 75% parts and labor, and the sixth and seventh years or up to 84,000 miles are covered at 50% parts and labor. Paint repairs must be pre-approved by Manufacturer/PPG and performed by an authorized PPG facility.

NOTE: Copies of these Warranties shall be provided to the purchaser in the bid response.

DELIVERY TO CUSTOMER

Y\_\_N\_\_

Delivery from the vehicle manufacturer to the local dealer shall be under the vehicles own power and not by flat bed or other means. The vehicle shall be cleaned and any additional installations performed at the local dealer. The vehicle will then be delivered to Westford Fire 51 Main St Westford MA. The dealer will also work with the Fire Chief and/or Training Officer to schedule training for their employee's.

BACKBOARD MOUNTS

Y\_\_N\_\_

Three (3) L-shaped backboard holders shall be fabricated and installed in OSS #4. The holders will be fabricated out of .090" smooth aluminum bent to form a U-shape channel along the bottom and back of the designated compartment. Rubber molding shall be attached to the channel to hold the boards securely without rattling.

**ATTACHMENT B**

To: Town of Westford:

The undersigned bidder proposes to furnish one new Type 1 Ambulance, in full compliance with the requirements of the specifications and subject only to any exceptions thereto noted on the separate page marked "Exceptions to Specifications" submitted herewith,

for the Contract Price of: \_\_\_\_\_  
(\$ \_\_\_\_\_ )

minus trade-in value for 1997 International Navistar 4700LP of: \_\_\_\_\_  
(\$ \_\_\_\_\_ )

for Final Contract Price of: \_\_\_\_\_  
(\$ \_\_\_\_\_ )

to be paid upon final acceptance of the Ambulance by the Town.

The Ambulance will be delivered to the Town of Westford, at the location directed by the Town, within approximately \_\_\_\_\_ days after execution of a written contract.

The bidder acknowledges receipt and acceptance of the following Addenda \_\_\_\_\_.

The bidder's certificate of non-collusion is attached hereto.

DATED: Bidder: \_\_\_\_\_  
By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**ATTACHMENT C**

**CERTIFICATE OF NON-COLLUSION**

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word “person” shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

\_\_\_\_\_  
(Signature of person signing the bid)

\_\_\_\_\_  
(Name of Business)

**ATTACHMENT D**

**CERTIFICATE OF TAX COMPLIANCE**

Pursuant to Chapter 62C of the Massachusetts General Laws, Section 49A(b), I,

\_\_\_\_\_, authorized signatory for

\_\_\_\_\_, do hereby certify under the pains and penalties  
(Name of Contractor)

of perjury that said contractor has complied with all laws of the Commonwealth of  
Massachusetts relating to taxes, reporting of employees and contractors, and withholding and  
remitting child support.

**CONTRACTOR**

By: \_\_\_\_\_  
(Signature of Authorized Representative)

Title: \_\_\_\_\_

Date: \_\_\_\_\_, 20\_\_

**ATTACHMENT E**

**CERTIFICATE OF CORPORATE AUTHORITY**

At a duly authorized meeting of the Board of Directors of \_\_\_\_\_  
(Name of Corporation)

held on \_\_\_\_\_ it was VOTED that:  
(Date)

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Officer)

of this corporation, be and he/she hereby is authorized to execute contracts, deeds and bonds in the name and on behalf of said corporation, and affix its corporate seal hereto; and such execution of any contract, deed or obligation in this corporation's name on its behalf by such \_\_\_\_\_ under seal of the company, shall be valid and binding upon this corporation.  
(Officer)

A True Copy,

ATTEST: \_\_\_\_\_

TITLE: \_\_\_\_\_

PLACE OF BUSINESS: \_\_\_\_\_

DATE OF THIS CERTIFICATE: \_\_\_\_\_

I hereby certify that I am the clerk of the \_\_\_\_\_  
that \_\_\_\_\_ is the duly elected \_\_\_\_\_ of said  
corporation, and that the above vote has not been amended or rescinded and remains in full force  
and effect as of the date of this contract.

\_\_\_\_\_  
(Clerk)

CORPORATE SEAL:

**ATTACHMENT F**

**AGREEMENT FOR PURCHASE OF NEW TYPE 1 AMBULANCE**

The following provisions shall constitute an Agreement between the Town of Westford, acting by and through its Board of Selectmen, hereinafter referred to as "Town", and

\_\_\_\_\_, with an address of \_\_\_\_\_,

\_\_\_\_\_ hereinafter referred to as

"Contractor", effective as of the \_\_\_ day of \_\_\_\_\_, 2010. In consideration of the mutual covenants contained herein, the parties agree as follows:

**ARTICLE 1: SCOPE OF WORK:**

The Contractor shall perform all work and furnish all services necessary to provide the Town with the new Type 1 Ambulance (“Ambulance”) described in the Specifications attached hereto as Attachment A.

**ARTICLE 2: TIME OF PERFORMANCE:**

The Contractor shall complete all work and services required hereunder and deliver said Ambulance to the Town on or before \_\_\_ days following execution of this Agreement by the Town.

**ARTICLE 3: COMPENSATION:**

The Town shall pay the Contractor for the performance of the work outlined in Article 1 above the contract sum of \$\_\_\_\_\_ as set forth in an attachment hereto.

**ARTICLE 4: CONTRACT DOCUMENTS:**

The following documents form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein:

1. This Agreement.
2. Amendments, or other changes mutually agreed upon between the parties.
3. All attachments to the Agreement.

In the event of conflicting provisions, those provisions most favorable to the Town shall govern.

**ARTICLE 5: CONTRACT TERMINATION:**

The Town may suspend or terminate this Agreement by providing the Contractor with ten (10) days written notice for the reasons outlined as follows:

1. Failure of the Contractor, for any reason not reasonably beyond the Contractor's control, to fulfill in a timely and proper manner its obligations under this Agreement, where such failure is a material breach. The Town's right to terminate the Contract pursuant to this clause is subject to the provisions of Article 13.
2. Violation of any of the provisions of this Agreement by the Contractor.
3. A determination by the Town that the Contractor has engaged in fraud, waste, mismanagement, misuse of funds, or criminal activity with any funds provided by this Agreement.

The Town may also terminate this Agreement for its convenience by providing the Contractor written notice specifying therein the termination date, which shall be no sooner than 10 days from the issuance of said notice. Upon receipt of a notice of termination, the Contractor shall cease to incur additional expenses in connection with the Agreement. Upon such termination, the Contractor shall be entitled to compensation for all work satisfactorily completed prior to the termination date as determined by the Town. Such payment shall not exceed the fair value of the services provided hereunder.

#### **ARTICLE 6: INDEMNIFICATION:**

The Contractor shall defend, indemnify and hold harmless the Town and its officers, agents, and all employees from and against claims arising directly or indirectly from the contract. Contractor shall be solely responsible for all local taxes or contributions imposed or required under the Social Security, Workers' Compensation, and income tax laws. Further, the Contractor shall defend, indemnify and hold harmless the Town with respect to any damages, expenses, or claims arising from or in connection with any of the work performed or to be performed under this Agreement. This shall not be construed as a limitation of the Contractor's liability under the Agreement or as otherwise provided by law. However, the Contractor shall have no liability to the Town for any delay in delivery due to strikes, work stoppages, fire, accidents or other causes beyond Contractor's control.

**ARTICLE 7: AVAILABILITY OF FUNDS:**

The compensation provided by this Agreement is subject to the availability and appropriation of funds.

**ARTICLE 8: APPLICABLE LAW:**

The Contractor agrees to comply with all applicable local, state and federal laws, regulations and orders relating to the completion of this Agreement. This Agreement shall be governed by and construed in accordance with the law of the Commonwealth of Massachusetts.

**ARTICLE 9: ASSIGNMENT:**

The Contractor shall not make any assignment of this Agreement without the prior written approval of the Town.

**ARTICLE 10: AMENDMENTS:**

All amendments or any changes to the provisions specified in this Contract can only occur when mutually agreed upon by the Town and Contractor. Further, such amendments or changes shall be in writing and signed by officials with authority to bind the Town. Additionally, all amendments and changes shall be approved by the Town Accountant prior to execution by the awarding authority. No amendment or change to the contract provisions shall be made until after the written execution of the amendment or change to the Contract by both parties.

**ARTICLE 11: INSURANCE:**

The Contractor shall be responsible to the Town or any third party for any property damage or bodily injury caused by it, any of its subcontractors, employees or agents in the performance of, or as a result of, the work under this Agreement. The Contractor and any subcontractors used hereby certify that they are insured for workers' compensation, property damage, personal and product liability. The Contractor and any subcontractor it uses shall purchase, furnish copies of, and maintain in full force and effect insurance policies in the amounts here indicated.

General Liability

Bodily Injury Liability:	\$1,000,000 per occurrence
Property Damage Liability	\$ 500,000 per occurrence
(or combined single limit)	\$1,000,000 per occurrence

Automobile Liability

Bodily Injury Liability:	\$1,000,000 per occurrence
Property Damage Liability	\$ 500,000 per occurrence
(or combined single limit)	\$1,000,000 per occurrence

Workers' Compensation Insurance

Coverage for all employees in accordance with Massachusetts General Laws

Professional Liability Insurance

Minimum Coverage \$1,000,000 per occurrence

Prior to commencement of any work under this Agreement, the Contractor shall provide the Town with Certificates of Insurance which include the Town as an additional named insured and which include a thirty day notice of cancellation to the Town.

**ARTICLE 12: WARRANTY**

Contractor warrants new Ambulance of its own manufacture against defective workmanship and materials for a period of one year from date of delivery to the Town.

Under this Warranty, the Contractor shall furnish the Town, without cost, all parts and labor required to replace defective material or workmanship.

**ARTICLE 13: FORCE MAJEURE**

Contractor will not be liable for any reasonable delay, failure to make delivery, or other default due to strikes or labor unrest, war, riot, federal, state or local government action, fire, flood or other disaster or acts of God, accidents, breakdown of machinery, lack of or inability to obtain materials, parts or supplies, or any other causes or circumstances beyond the reasonable control of Contractor which prevent or hinder Contractor's manufacture and/or delivery of the Ambulance.

**CERTIFICATION AS TO PAYMENT OF STATE TAXES**

Pursuant to Chapter 62C of the Massachusetts General Laws, Section 49A(b), I, \_\_\_\_\_, authorized signatory for \_\_\_\_\_, do hereby certify under the pains and penalties of perjury that said contractor has complied with all laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

\_\_\_\_\_  
Social Security Number or  
Federal Identification Number

\_\_\_\_\_  
Signature of Individual or  
Corporate Name

By:  
Corporate Officer  
(if applicable)

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed on the day and year first above written.

CONTRACTOR

TOWN OF WESTFORD

by

by its Board of Selectmen

\_\_\_\_\_  
Signature

\_\_\_\_\_

\_\_\_\_\_  
Printed Name and Title

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Approved as to Availability of Funds:  
\_\_\_\_\_  
Town Accountant      (\$\_\_\_\_\_) Contract Sum