

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

TECHNICAL BID SPECIFICATIONS FOR THE PURCHASE OF ONE (1) NEW CUSTOM BUILT EMERGENCY MEDICAL VEHICLE AS PER THESE DETAILED BID SPECIFICATIONS

OVERVIEW

Oak Bluffs EMS seeks to purchase one (1) new / unused "custom built" Type I-AD, Class I Ambulance for use as a primary emergency response vehicle as specified within these technical specifications. Ample time has been put into the needs / design of this vehicle therefore only manufacturers that closely meet these technical specifications will be accepted responsive.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

The YES/NO space below each item in this bid specification must be fully and accurately completed in order for the bid to be considered responsive. The bidder must indicate compliance by circling either YES or NO. General statements taking total exception to these specifications shall result in an interpretation of being non-responsive and ineligible for consideration, and will be automatically rejected.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

It shall be noted that the Oak Bluffs EMS is seeking a vehicle that closely matches the attached specifications. Extensive time has been put into preparing the attached specifications as they relate to the needs of the department and also to match the existing fleet of apparatus. It shall be noted that due to the design of this custom built apparatus, submission of alternative "stock" or "demo" vehicles will not be considered.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

The specification is based upon compliance to minimum standards as outlined in the Federal Ambulance Specifications, KKK-A-1822-E and dated as of June 1, 2002. Further the ambulance will meet all rules, regulations, and licensing requirements as per Massachusetts Office of Emergency Medical Services (OEMS). It shall be noted that the new federal Standard KKK-A-1822F specifications are public, the Massachusetts Office of Emergency Medical Services (OEMS) has not fully adopted the revised "F" specification. All bidders shall be aware that this vehicle, upon completion and delivery shall be guided under OEMS regulations. No exceptions to this requirement.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

At minimum, the same company must build the modular body, interior cabinets, and all painting, thus avoiding divided responsibilities when dealing with warranty adjustments. Any company that sub-contracts or allows another company to do any of these minimum requirements will be automatically rejected. No exceptions to this requirement.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

The vehicle shall be delivered under its own power to assure adequate break-in while under warranty. It shall first be transported to the local service facility, where final inspection and preparation will be performed. The vehicle will then be delivered to the Town of Oak Bluffs EMS. Prior to actual delivery of vehicle all necessary service / prep work, installation of desired tools/ equipment and professional clean / detail shall be performed.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

The bid proposal shall include the number of calendar days to construct and deliver the completed ambulance. Delivery lead time may be an important consideration for bid award.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

CHASSIS

Manufacturer:

The required chassis manufacturer shall be at minimum, a 2010 or newer International Navistar 4300 SBA LP 4X2 (MH025) (low profile), furnished with a two-door conventional cab.

Application:

Ambulance.

Mission:

Requested GVWR: 20,000. Calc. GVWR: 20,000.

Calc. Start / Grade Ability: 36.60% / 3.34% @ 55 MPH.

Calc. Geared Speed: 86.6 MPH.

Fuel Economy:

9.28 MPG @ 55 MPH.

Dimension:

Wheelbase: 169.00, CA: 101.90, Axle to Frame: 63.00.

Engine, Diesel:

{International MaxxForce DT} EPA 07, 255 HP, 660 lb-ft Torque @ 1400 RPM, 2600 RPM

Governed Speed, # 2 Bell Housing.

Transmission, Automatic:

{Allison 2100_EVS_P} 4th Generation Controls; Close Ratio, 5-Speed, With Overdrive; With PTO Provision, Less Retarder, With 26,000-lb GVW & GCW Max.

Clutch:

Omit Item (Clutch & Control).

Axle, Front Non-Driving:

{Dana Spicer D800-F} I-Beam Type, 8,000-lb Capacity.

Axle, Rear, Single:

{Dana Spicer S14-130} Single Reduction, 13,500-lb Capacity, With 190 Wheel Ends. Gear Ratio: 4.10.

Cab:

Conventional.

Tire, Front:

(2) 245/70R19.5 XZE (MICHELIN) 619 rev/mile, load range F, 12 ply.

Tire, Rear:

(4) 245/70R19.5 XZE (MICHELIN) 619 rev/mile, load range F, 12 ply.

Suspension, Rear, Air, Single:

{International} Ride Optimized Suspension (IROS); 12,000-lb Capacity, 5.3" Ride Height, With Shock Absorbers.

Paint:

Cab schematic 100GA.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Location 1: 9219, Winter White (Std).
Chassis schematic N/A.

Description

Base Chassis, Model 4300 SBA LP 4X2 with 169.00 Wheelbase, 101.90 CA, and 63.00 Axle to Frame.

TOW HOOK, FRONT (2) Inside Rail, Frame Mounted.

FRAME RAILS High Strength Low Alloy Steel (80,000 PSI Yield); 9.125" x 3.062" x 0.312" (231.8mm x 77.8mm x 8.0mm) With Transition to 6.500" x 3.062" x 0.312" (165.1mm x 77.8mm x 8.0mm) 388.4" (9864mm) Maximum OAL; For LP Chassis.

LICENSE PLATE HOLDER Includes Upper & Lower Mounting Plate Hardware, Mounted in Existing Holes in Front Bumper.

BUMPER, FRONT Full Width, Aerodynamic, Chrome Plated Steel; 0.142" Material Thickness.

WHEELBASE RANGE 134" (340cm) Through and Including 197" (500cm).

AXLE, FRONT NON-DRIVING {Dana Spicer D800-F} I-Beam Type, 8,000-lb Capacity.

SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 8,000-lb Capacity; With Shock Absorbers.

Includes

: SPRING PINS Rubber Bushings, Maintenance-Free.

BRAKE SYSTEM, HYDRAULIC {Meritor-Wabco} Split System, Full Power, With Automatic Adjustment And With Four Channel ABS.

DRAIN VALVE {Berg} Manual; With Pull Chain, for Air Tank.

AIR DRYER {Bendix AD-IP} With Heater.

BRAKE, PARKING {Bosch} DSSA Drum Type; 12" x 3", Spring Actuated; For Hydraulic Brake Chassis With Air Source; Activated by Parking Brake Knob on Instrument Panel; Differential Mounted.

Includes

: PARKING BRAKE CONTROL Applies Hydraulic Actuated Powered Park Brake.

TRACTION CONTROL, HYDRAULIC Automatic; With Full Power Hydraulic Brake System.

BRAKES, FRONT, HYDRAULIC DISC Quadraulic; four 70mm Diameter Pistons.

BRAKES, REAR, HYDRAULIC DISC Quadraulic; four 70mm Diameter Pistons.

AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM Capacity; and Tank for Air Source on Hydraulic Chassis.

PARKING BRAKE CONTROL For Automatic Actuation; Use With Allison 2000 Transmission, With Dual Neutral, With Hydraulic Brakes, and Powered Parking Brakes.

STEERING COLUMN Tilting and Telescoping.

STEERING WHEEL 2-Spoke; 18" Diam., Black.

STEERING GEAR {TRW (Ross) TAS-40} Power.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

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.

EXHAUST BRAKE, DLOGIC {Diamond Logic} for MaxxForce DT Engines; Electronically Activated.

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.

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.

: HORN, ELECTRIC Single.

: JUMP START STUD Located on Positive Terminal of Outermost Battery.

: PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light.

: 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 Auxiliary Side Turn Signals, 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.

HORN, ELECTRIC (2).

POWER SOURCE Cigar Type Receptacle without Plug and Cord.

ALTERNATOR {Leece-Neville 4962PAH} Brush Type, 12 Volt 320 Amp. Capacity, Pad Mounted.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

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.

BATTERY SYSTEM {International} Maintenance-Free, (3) 12-Volt 2775CCA Total.

RADIO {International} AM/FM Stereo With CD Player, Weatherband, Clock, Auxiliary Input, Includes Multiple Coaxial Speakers.

Includes

- : SPEAKERS IN CAB (2) Coaxial with Deluxe Interior.
- : SPEAKERS IN CAB (4) Coaxial with Premium Interior.

TURN SIGNAL SWITCH With Hazard Flasher Override Brake, To be Done With Programming System Controller.

DISCONNECT, FRONT HARNESS For Guide Post Lights; Connectors Located at Headlight Connection, for Customer Installation.

SWITCH, AUXILIARY Interrupter; for Cab and Body Clearance/Marker Lights, Single Position Blinks Lights When Headlight Switch Is In "On" or "Off" Position.

HORN, AIR Black, Single trumpet, air Solenoid Operated.

WINDSHIELDS WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time.

HEADLIGHTS Halogen; Composite Aero Design for Two Light System; Includes Daytime Running Lights.

CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade.

STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection

CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses.

GRILLE Chrome.

INSULATION, UNDER HOOD for Sound Abatement.

INSULATION, SPLASH PANELS for Sound Abatement.

BUG SCREEN Front End; mounted Behind Grille.

FRONT END Tilting, Fiberglass, With Three Piece Construction.

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

Includes

- : PAINT SCHEMATIC ID LETTERS "GA".

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

CLUTCH Omit Item (Clutch & Control).

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

ENGINE, DIESEL {International MaxxForce DT} EPA 07, 255 HP, 660 lb-ft Torque @ 1400 RPM, 2600 RPM Governed Speed, # 2 Bell Housing.

Includes

: AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated.

: COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control.

: CRUISE CONTROL Electronic; Controls Integral to Steering Wheel.

: ENGINE OIL DRAIN PLUG Magnetic.

: ENGINE SHUTDOWN Electric, Key Operated.

: FUEL FILTER Included with Fuel/Water Separator.

: FUEL/WATER SEPARATOR Fuel/Water Separator and Fuel Filter in a Single Assembly; With Water-in-Fuel Sensor; Engine Mounted.

: GOVERNOR Electronic.

: OIL FILTER, ENGINE Spin-On Type.

: WET TYPE CYLINDER SLEEVES.

FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed With Residual Torque Device for Disengaged Fan Speed.

Includes

: FAN Nylon.

FEDERAL EMISSIONS for 2004; for International VT365, DT466 and DT570 Engines.

RADIATOR Aluminum; 2-Row, Cross Flow, Over Under System, 717 SqIn Louvered, With 313 SqIn Charge Air Cooler. With In-Tank Transmission Cooler.

Includes

: ANTI-FREEZE Red Shell Rotella Extended Life Coolant -40F (-40C).

: DEAERATION SYSTEM with Surge Tank.

: HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps.

: RADIATOR HOSES Premium, Rubber.

AIR CLEANER Single Element.

Includes

: GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted.

OVER-TEMPERATURE PROTECTION (For Engine Coolant) Omit Item.

THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel.

FEDERAL EMISSIONS 2007 for International MaxxForce DT Engines (DT466).

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for MaxxForce post 2007 Emissions Electronic Engines.

BLOCK HEATER, ENGINE {Phillips} 120 Volt/1250 Watt; With "Y" Cord From Socket in standard Location, With Provisions in Oil Pan For a Dealer Installed Oil Pan Heater, With Extended Life Coated Oil Pan, for 16 Engines.

Includes

: BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door.

EXPANDED ENGINE TEMP EFFECTS to Allow Higher Engine Operating Temperature Range; Includes Nylon Surge Tank and 15 psi Pressure Cap.

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

OIL COOLER, AUTO TRANSMISSION Air to Oil Type.

TRANSMISSION, AUTOMATIC {Allison 2100_EVS_P} 4th Generation Controls; Close Ratio, 5-Speed, With Overdrive; With PTO Provision, Less Retarder, With 26,000-lb GVW & GCW Max.

Includes

: OIL FILTER, TRANSMISSION Mounted on Transmission.

: TRANSMISSION OIL PAN Magnet in Oil Pan.

SUSPENSION AIR CONTROL VALVE Pressure Release Control In Cab.

AXLE, REAR, SINGLE {Dana Spicer S14-130} Single Reduction, 13,500-lb Capacity, With 190 Wheel Ends . Gear Ratio: 4.10.

Includes

: REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle.

SUSPENSION, REAR, AIR, SINGLE {International} Ride Optimized Suspension (IROS); 12,000-lb Capacity, 5.3" Ride Height, With Shock Absorbers.

FUEL/WATER SEPARATOR With Thermostatic Fuel Temperature Controlled Electric Heater, and Filter Restriction/Change Indicator, Includes Standard Equipment Water-in-Fuel Sensor.

FUEL TANK Top Draw; D Style, Non Polished Aluminum, 50 U.S. Gal., 189 L Capacity, 16" Deep, With Quick Connect Outlet, Mounted Right Side, Under Cab.

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.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

: 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 (4) Two Steps per Door.

GRAB HANDLE, CAB INTERIOR (2) Safety Yellow.

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).

GAUGE, OIL TEMP, ALLISON TRAN.

GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel.

IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster.

SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, With 2 Position Front Cushion Adjust, -3 to +14 Degree Angle Back Adjust.

Includes

: SEAT BELT 3-Point, Lap and Shoulder Belt Type.

SEAT, PASSENGER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolated, 1 Chamber Lumbar, 2 Position Front Cushion Adjustment, -3 to +14 Degree Back Adjust.

Includes

: SEAT BELT 3-Point, Lap and Shoulder Belt Type.

GRAB HANDLE (2) Chrome Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry, Mounted Left and Right, Each Side at "B" Pillar.

MIRROR, CONVEX, LOOK DOWN {Lang Mekra} Right Side; 6" x 10 1/4", With bright Finish.

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.

SEAT BELT All Red; 1 to 3.

ARM REST, RIGHT, DRIVER SEAT.

ARM REST, LEFT, PASSENGER SEAT.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

INSTRUMENT PANEL Center Section, Flat Panel.

WINDOW, POWER (2) And Power Door Locks, Left and Right Doors, Includes Express Down Feature.

AIR CONDITIONER {International Blend-Air} With Integral Heater & Defroster.

Includes

: HEATER HOSES Premium.

: REFRIGERANT Hydrofluorocarbon HFC-134A.

FRESH AIR FILTER for HVAC.

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, 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.

LOW WASHER FLUID INDICATOR.

SUNSHADE, EXTERIOR Aerodynamic, Painted Roof Color; Includes Integral Clearance/ Marker Lights.

WHEELS, FRONT DISC; 19.5" Painted Steel, 4 Hand Hole, 8-Stud (275 MM BC) Hub Piloted, Flanged Nut, Metric Mount, 6.75 DC Rims; With Steel Hubs.

Includes

: PAINT IDENTITY, FRONT WHEELS White.

: WHEEL SEALS, FRONT Grease Lubricated, Includes Wheel Bearings.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

WHEELS, REAR DUAL DISC; 19.5" Painted Steel, 4 Hand Hole, 8-Stud (275 MM BC) Hub Piloted, Flanged Nut, Metric Mount, 6.75 DC Rims; With Steel Hubs.

Includes

: PAINT IDENTITY, REAR WHEELS White.

: WHEEL SEALS, REAR Oil Lubricated, Includes Wheel Bearings.

WHEEL SEALS, FRONT {International} Oil-Lubricated Wheel Bearings.

PAINT IDENTITY, FRONT WHEELS {Accuride} Disc Front Wheels; With Vendor Applied (PKWHT21) White Powder Coat Paint.

PAINT IDENTITY, REAR WHEELS {Accuride} Disc Front Wheels; With Vendor Applied (PKWHT21) White Powder Coat Paint.

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.

(2) TIRE, FRONT 245/70R19.5 XZE (MICHELIN) 619 rev/mile, load range F, 12 ply.

(4) TIRE, REAR 245/70R19.5 XZE (MICHELIN) 619 rev/mile, load range F, 12 ply.

Cab schematic 100GA.

Location 1: 9219, Winter White (Std).

Chassis schematic N/A.

Include The Following By Aftermarket Modifications Center:

Dual Grover Stuttertone Air Horns On Hood W/ Center Lanyard.

Rear Suspension Stops.

2nd Leveling Valve.

Furnish And Install Ping Tanks.

Auxiliary A/C Compressor.

Program Door Locks "OFF".

Extend Exhaust To Exit Passenger Side In Front of the Rear Tires.

Set Tire Pressures To 70 PSI.

Spare Front Tire & Steel Wheel.

Change Rear Tires From Michelin XZE To Michelin XDS-2 Traction Tires.

OnSpot Tire Chains.

Pressure Pro 6-Wheel Tire Pressure Monitoring System.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

AMBULANCE CONVERSION CHASSIS MODIFICATIONS AND EQUIPMENT

Volt/Amp Meter Gauges:

In addition to chassis OEM gauges, the ambulance conversion manufacturer shall install a combination ammeter and voltmeter. The volt and amp meters shall have digital read-out located on the front ambulance manufacturers console visible from the cab driver seat. The system, when installed shall automatically change to show amperage and voltage every three to five seconds. Additional measures to allow the driver to maintain a constant readout of either voltage or amperage thru the front console shall be provided. All systems shall resume standard processes thru the same process or after the vehicles power is terminated and reenergized.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Heater Hoses:

Heater hoses are to be Nomex, with highest quality, and highest temperature rating available. All hoses must be of equal or greater quality than required by the chassis manufacturer.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Heat Shields:

Steel heat shields shall be installed between the chassis muffler and the modular body. Steel shields shall also be installed at any location where the exhaust system is less than three inches from the modular body.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Undercoating:

After the body is assembled, all under surfaces, including chassis, are to be heavily coated with automotive grade petroleum based undercoating to protect against road salts and to provide additional sound deadening.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Wheel Covers:

Phoenix™ stainless steel wheel simulators shall be installed over the chassis OEM steel wheels.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Cab Spot Light:

There shall be a GoLight, Inc. model 2020 (White) remote controlled spotlight installed on the center of the cab roof. A dash mount remote control shall be installed in the front console in a convenient location to both the driver and passenger to operate the spotlight.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Cab Door Window Tint:

Both cab door windows shall include additional darkening tint film applied to the interior of the window for added privacy. Actual percentage of tint shall be determined.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Cab "Custom" Console:

A "custom" driver's control panel console shall be installed. This console shall be designed to allow easy access from either cab seat. This console shall be manufactured out of wood and a color coordinated laminate. The radius corners shall be aluminum. The console shall have the ability to mount, at minimum, the manufacturers front switch panel, siren head, (2) department supplied two-way radios and two (2) cup holders. A map book

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

storage area with two dividers (evenly spaced) shall be provided at the end of the console. The actual design shall be determined at time of bid award. No exceptions.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Batteries:

The vehicle shall be equipped with a total of three (3) OEM chassis batteries installed on a heavy-duty slide-out tray. The batteries shall be located under the driver side cab door step as installed by International. The conversion manufacturer shall supply and install a heavy-duty slide-out tray to gain access to the batteries. The batteries shall include additional measures to eliminate road dirt and debris from entering the battery storage area. The slides shall be of the highest quality possible to eliminate corrosion and oxidization due to the road elements. The tray shall lock in the closed position. The diamond plate cover panel shall latch to the framing as supplied by OEM.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Air Dump System:

The rear air suspension shall automatically deflate the rear chassis' rear air springs to aid in installing the stretcher and to further meet the requirement Federal specification of load height. The air system shall deflate the air suspension when the left rear module entry door is opened. A manual override switch shall be installed on the right rear entry door of the module. Additionally, there shall be a Whelen "OS" Series LED (Whelen part #OSROOMCR) style visual warning light in the cab to advise the driver the rear air suspension system is deflated. The light shall be visible from the drivers seated position.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Owner's Manual:

A complete ambulance manufacturer's owner's manual shall be included with vehicle. The manual will include wiring diagrams as well as a wiring narrative about the vehicle. Also included will be all additional manufacturer instructions from options installed.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Cab Warning Indicators:

A visual alarm shall be mounted in the cab switch console area to indicate any open compartment door or module entry door is "open".

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Cab Warning Light for Open Door(s):

Located in the center of the cab ceiling shall be one (1) Whelen PAR 16, 2" diameter, Red LED flashing light indicate when any module entrance door or exterior compartment door is open. The light shall contain a chrome trim ring kit. A plastic engrave nomenclature shall be installed near the light labeled "Open Door". The nomenclature shall be secured to the headliner.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Cab Warning Light for Emergency Brake:

Located in the center of the cab ceiling shall be one (1) Whelen PAR 16, 2" diameter Amber LED flashing light to indicate that the vehicles emergency brake is applied. The light shall contain a chrome trim ring kit. A plastic engrave nomenclature shall be installed near the light labeled "Emergency Brake Applied". The nomenclature shall be secured to the headliner.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Fire Extinguishers:

Two (2) five-pound ABC fire extinguishers shall be supplied and shipped loose unless otherwise directed by this agency.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

AMBULANCE DESIGN / CONVERSION

Aluminum Module Body:

Body exterior shall be a minimum of 171.75" long x 96" wide x 92" high. The patient compartment aisle shall be a minimum of 43 inches wide. The exterior body compartments shall be a minimum of 19 inches deep, unless otherwise specified. All body panels, structures, and extrusions shall be fabricated of ALL aluminum construction using alloys consistent with the load requirements of the vehicle. Overall vehicle length, including bumpers, shall be approximately 300" (25').

The vehicle height ground to top of module (or any other equipment) shall not exceed 116" (9'8").

All ambulance bodies shall be manufactured / fabricated on site by the manufacturer without exception.

Construction of the module body by subcontracted services or third party manufacturers shall not be permitted.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Modular Body:

All body panels, structures, and extrusions shall be fabricated of ALL ALUMINUM construction using alloys consistent with the load requirements of the vehicle. Exterior body sides and ends shall be fabricated from .125" thickness 5052-1132 single flat sheet aluminum, a highly corrosive resistant marine grade alloy with 2.5% magnesium and having a tensile strength range of 31,000 to 35,000 PSI. AN exterior aluminum body panels shall be attached using a perimeter weld and high performance polyurethane two-sided tape on all interior supports.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Cab to Module Connection:

A pass-thru configuration thru shall be provided between the cab and the modular body. The cab rear window shall be removed. An opening in the middle of the rear wall of the cab and an opening in the cab forward shall be made. The opening shall be framed with 14-gauge 1" x 2" tubular steel frame along the back wall of the cab. A 14-gauge steel sheet shall then be welded to the backside of the frame. An opening shall be cut through the steel sheet for the cab to module pass-thru configuration.

The steel framework shall then be welded to the back wall of the cab. 14-gauge steel sheets shall be continuously welded to the cab rear wall to fill the remainder of the window opening. The entire sheeting assembly shall then be primed and painted per the paint specifications listed in this document to match the cab paint color.

An extruded EPDM closed cell rubber boot shall then be attached to the rear of the pass-through opening to seal the opening between the module and cab. This rubber seal shall have continuous flexible steel core made of high carbon spring steel. It shall conform to the following minimum requirements:

Compression deflection of 2-9 PSI at 25% deflection, temperature range of 40° F to +158° F, and water absorption of not more than 1%. This extruded seal shall attach to a continuous flange on both the module and the cab. This flexible seal shall be installed as one continuous piece with only one seam at the bottom. This bottom seam shall then be sealed with Silicone and protected with an aluminum wear plate covered in the same material as later described in this specification.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Module Mounting:

The chassis cab module shall be mounted using outrigger type mounts and OEM rubber spacers with steel sleeves. A minimum #8 grade bolt and locking nut shall be used. There shall be a minimum of 10 mounting points. These mounting points shall utilize existing OEM frame rail holes whenever possible.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Framing:

Body wall vertical framing shall consist of 2" x 2" x .125" and 2" x 3" x .125" aluminum extruded tubing of 6063-T6 alloy (6063-T6 is a highly corrosive resistant alloy with 1% magnesium and 6% silicone with a tensile strength range of 31 000 to 35,000 PSI).

A minimum 2" x 3" x .125" aluminum tubing shall be installed fore and aft of the rear wheel well housings and at the rear of the module.

A horizontal 2" x 3" x .125" extruded tube shall be utilized at the lower edge and 2" x 2" x .125" shall be utilized as a minimum at the top and midline of all walls to provide superior impact protection.

Vertical aluminum radius-type corner extrusions, of a hollow core design, utilizing 6063-T5 alloy, which interlock with the body side sheets and vertical framing shall be utilized. These corner post extrusions must include an integral X-frame running full length of the extrusion for added impact resistance. 2" x 2" x .125" and 2" x 3" x .125" (where applicable) extruded tubes shall be welded to the outside of the X-frame on either side of the corner post extrusion to complete a 7.5" radiused corner post design.

Compartment and patient door jamb framing shall be made from 6063-T5 extrusions. The exterior lip will be flush with the exterior wall skin when installed. The doorframe extrusion will be continuously welded to the wall skin and the minimum two-inch square framing extrusion around the exterior perimeter. The door jamb trim shall also be welded on the interior where each door pin is located.

All seams shall be sealed and caulked.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Roof:

The roof shall be one piece .090" aluminum sheet, 5052-H32 alloy, which is supported by a grid consisting of a 4" x 2" x .150" channel with .230" flanges running longitudinally and 4" x 2" x .125" that channels extending transversely from the longitudinal channel to the roof frame extrusions. These hat channels shall be spaced no more than 18" apart. The 4" x 2" x .150" channel shall also function as a wiring raceway. The roof frame extrusions and corner extrusions shall be the reinforced type, hollow core design. All roof rail extrusions shall be 6061-T6 alloy. No radius corners consisting of a rolled sheet will be accepted.

The roof extrusions shall incorporate a drip rail on all four sides of the body. The roof shall be crowned 1/2" to facilitate water runoff. The roof sheet shall interlock with the roof frame extrusions.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Modular Floor:

The floor shall be interlocking .125" 6063-T6 alloy aluminum extrusions set at a 90-degree angle from the frame rails. These extrusions shall form a .125" thick aluminum sub floor with 2" x 2" x .125" aluminum square tube frame on 10" centers.

The floor extrusion shall consist of a "C" channel with hollow "V" joint receptacle on one end and an extruded solid "V" edge which mates with the hollow "V" receptacle on the adjoining extrusion. The floor extrusion shall be welded both on top and on the bottom.

When the solid "V" edge of one piece is inserted into the hollow "V" receptacle of another, the toothed leg shall lock to form one side of the 2" tubular frame. Aluminum angle shall run lengthwise and be welded to each interlocking extrusion.

The voids between the 2" x 2" frame members shall be filled with 2" high density "Blue Board" plank insulation.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

The underside shall be covered by a sheet of .050" aluminum with sealed seams and then undercoated, thus providing a smooth 2" thick integrally insulated double aluminum floor. Insulation sprayed directly onto the underside of the floor shall not be acceptable.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Modular Body Warranty:

A lifetime, modular body structural, warranty shall be provided. Lifetime is defined as no maximum mileage or time limit Modular body construction methods and materials must be certified in compliance with AMD Standard 001, "Static load test for ambulance body structure".

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Undercoating:

After the body is assembled, all under surfaces, including chassis, are to be heavily coated with automotive grade petroleum based undercoating to protect against road salts and to provide additional sound deadening.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Interior Headroom:

The interior of the patient compartment will provide no less than 74 inches of finished headroom from floor to ceiling.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Cab To Module Access:

Due to the front bulkhead cabinet configuration, a chassis cab to modular body pass-thru to the patient compartment shall be provided. It shall contain a sliding Plexiglas window that latches open and closed only from the cab side. A track shall provide rattle free operation.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Module Vents:

There shall be a minimum of three intake and exhaust vents mounted high on the ambulance body. One vent shall be mounted on the oxygen compartment door, one vent shall be mounted on left rear streetside wall for the exhaust fan and one shall be mounted on the right front curbside wall for a fresh air intake to the module heater / air conditioning system.

Vents shall be manufactured by Cast Products, Inc. #C10340. A filter screen shall be permanently installed against the module body.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Rear Fender Rings:

There shall be one-piece stainless steel fender rings installed around the rear body cutout above the rear wheels. The fender rings, when installed shall not contain any exposed fasteners. These fender rings shall provide an aesthetically pleasing rounded opening.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

MODULE DOORS AND WINDOWS:

Entry Door Reflectors:

There shall be two (2) red reflectors or highly reflective, DOT approved, Scotchlite tape mounted on each module entry door, visible from oncoming traffic.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Module Entry Doors:

There shall be entry doors on the curbside and the rear of the patient compartment. The entry doors shall be recessed into the extruded frame. The entry doors shall be of an extruded pan formed labyrinth style. They shall be a minimum of three inches thick. In addition to the extrusions reinforcing each outer door pan, the extrusions themselves shall be reinforced through a dual joining method. Each mitered corner, where the framed corners join, shall be fitted with an angled gusset and an exterior .125 door pan. The entire corner shall then be welded and finished smooth. All doors shall include 2" high density "Blue Board" plank insulation and a four mil, vapor barrier. Doors that employ square tube and box pan sheet construction are not acceptable.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Protective Padding:

There shall be protective pads directly above the side and rear doors. These pads shall be a minimum of 2" thick and shall be constructed of high-density foam and heavy-duty vinyl. No piping shall be used and all seams shall be sealed to repel contaminants. The cushions shall be installed with industrial grade plastic hook and loop Velcro allowing easy removal for cleaning. The Velcro when attached to the separate surfaces shall ensure that it will not come apart from the individual areas. Pads over entry doors shall extend below Nader pins to prevent serious head injury. These pads shall be trimmed on the exterior side with stainless steel.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Insulation:

All entrance doors shall be fully insulated with 2" high density "Blue Board" plank insulation. Insulation, when installed, shall include up to 85% of the door cavity, due to the required latching hardware routing path.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Vapor Barrier:

All entrance doors shall be finished with a 4-mil clear polyethylene vapor barrier. The vapor barrier will be installed directly over the insulation and prior to the finished door panel being installed. The vapor barrier shall be installed as one-piece to allow the necessary effectiveness. The vapor barrier shall be taped in place to prevent settlement.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Door Seals:

The door seals must be EPDM hollow core and provide a 360-degree uninterrupted seal with a full 1/2" of compression. Door latches shall be inboard of the seal therefore protecting latches from dirt, moisture, and weather deterioration. Seals shall be mounted in a way to protect them from abuse.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Door Hardware:

Each modular body entrance door shall be equipped with two heavy-duty rotary latches to meet FMVSS 206 standards.

Each rotary latch shall close on a post (Nader pin) mounted to the door frame extrusion. A minimum 2" x 2" x .125" frame member shall be placed behind the extrusion for positive two point latching. All door latch nader pins shall be adjustable.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Both rear doors must latch onto the doorframe.

All door latch posts shall be adjustable.

A continuous Clean Seal #50512 door gasket shall be installed 360 degrees around the entire door. Each door shall have a continuous stainless steel hinge with a .250" pin.

Hinges shall be slotted for adjustment and attached to the door with .250" stainless steel bolts for easy removal.

Hinges shall not be riveted to body or doors. A dielectric barrier to include "Eck" and anti-corrosive tape shall be provided between the hinge and the doorframe.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Entry Door Sill Plates:

Inner and outer sills of the module entry doors shall be trimmed with formed brushed stainless steel plates to protect painted surfaces. All plates shall be installed with industrial grade adhesive. No mechanical fasteners may be used.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Entry Door Hinges:

Each module entry door shall be mounted with a continuous polished stainless steel piano style hinge with a minimum pin diameter of .250". Hinge pin diameter of less than .250" is unacceptable to ensure the long-term performance of the hinge in this extreme use application and also to ensure the hinge will not hang causing door closing problems. The hinge shall be slotted for adjustment and attached to the door with stainless steel bolts for easy removal. All door hinges shall be installed prior to painting and then removed and reinstalled after the module body has been properly painted. Two methods of preventing paint corrosion shall be installed. Step one shall include an adhesive backed clear tape between the painted surface and the stainless steel hinge. Step two shall include a dielectric barrier, "ECK", of which shall be generously installed between the module body and the door hinge. Both methods shall be applied along the entire length of the hinge prior to installation.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Side Entry Door:

The side entrance door shall be equipped with a heavy-duty gas dampening hold open device that shall hold the door open at 90 degrees.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Side Entry Door Threshold:

The side patient entry door shall have a threshold with non-slip tape installed.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Side Entry Door Window:

Side entry door shall be equipped with a manufactured sized 16" x 20" sliding, tinted safety plate window in an aluminum frame. The sliding window shall contain a positive latch and screen. The window shall include a 'Bronze' tint within the actual glass.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Side Entry Door Window Tint:

In addition to the required "bronze" tint, the side entry door window shall contain additional "limo" tint film applied to the interior of the window for added patient privacy.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Rear Entry Doors:

The ambulance module shall have double hinged rear entry doors on the rear of the module. The doors shall provide a minimum of 56 inches of pass thru height at rear doors and shall be full width of the rear floor space.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Rear Entry Door Hold Opens:

The rear entry doors shall have Cast Products, Inc. "Grabber" hold-open devices with high-density rubber replaceable inserts mounted on each door. These devices shall hold the doors in a fully opened 160-degree position.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Rear Entry Door Windows:

Rear entry doors shall be equipped with a manufacturer sized 16" x 20" non-opening, tinted safety plate window in an aluminum frame. Each rear door window shall incorporate an electronic tint feature. This feature shall allow the window to become opaque at the touch of a switch.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Privacy Window Operation:

The electronic windows for both rear module entry doors shall be controlled from a switch in the main action area.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Door Paddle Latches:

Doors shall be equipped with Tri-Mark 30-8, large, full size paddle latches. A nonskid easy-grip surface shall be applied to the backside of the handle to permit a gloved or wet hand horn easy gripping the handle. The right rear and side entrance doors shall be lockable from inside or outside.

There shall be a rubber gasket installed between the paddle latch and the door.

All entrance doors and exterior compartment doors shall be keyed alike.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Rear Door Exterior Door Latch:

Both rear doors shall be equipped with both interior and exterior paddle latch for ease of operation, four (4) latches total. Manufacturers that utilize an interior pull latch on the left hand door to allow the door to open will not be considered an alternate as this impedes into the entrance / existing of the passage way into the module. No exceptions to this requirement.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Door Latches:

All exterior module doors shall have a pre-stressed stainless steel shielded cable as the means to activate door latches and door rotary gear latches. The stainless steel shielded cable shall have machine crimped ends. The ends shall be crimped at a 100 psi setting and be subject to a minimum 175 peak load, lb. "Locklite" shall be applied on both ends.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Door Panels:

All module door interior panels shall be installed using stainless steel, fine thread, flathead machine screws and cage nuts. All areas that will not accommodate a cage nut shall be a minimum quarter inch thick and be tapped. The use of self tapping screws will not be allowed.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Entry Door Trim Panels:

Each modular body entrance door shall have a removable .100" aluminum inside access panel to facilitate latch adjustment or repair. The lower interior panel shall be .100" polished, bright aluminum diamond plate. Upper access interior door panels shall be .100" aluminum covered with color coordinated laminate that is identical to the interior walls of the patient compartment.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Door Trim On Entry Doors:

There shall be stainless steel formed angle trim installed on the inside of the doors, hinge side of all module entry doors prevent paint from chipping when unloading / loading equipment. The rear entry doors shall contain stainless steel door trim on both the hinged and non-hinged sides of the door due to the severe potential of paint chipping on both surfaces.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Side Entry Door Stepwell:

A formed aluminum side entrance doorstep with NFPA approved anti slip polished aluminum diamond plate shall be recessed into the body and be lined with bright aluminum tread plate on all exposed surfaces. An intermediate 2nd step, of the same design, shall be installed in the stepwell between the bottom step and the module floor.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Stepwell Illumination:

Each side entry step shall be illuminated with adequate one (1) Whelen White LED lights with chrome base; two (2) lights total. Whelen part #OSCOEDCR.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Curbside Body Window:

There shall be a non-opening window in an aluminum frame installed in the curbside of the module body above the squad bench. The window shall be a minimum of 30' x 16'. Window shall include a "Bronze" tint within the actual glass.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Privacy Panel:

The side body module window shall have a two-section sliding privacy panel with a White marker board installed.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

EXTERIOR MODULE COMPARTMENTS

Exterior Compartments:

The exterior compartments shall be formed from a minimum .090" aluminum sheet. The compartments shall be welded to the body floor and sidewall structure for strength and rigidity. All corner seams shall be welded and caulked.

Bidder Understands And Will Supply Exactly As Written? YES NO

Exterior Compartment Door Reflectors:

There shall be two (2) red reflectors or highly reflective, DOT approved, Scotchlite tape mounted on each compartment door, visible from oncoming traffic.

Bidder Understands And Will Supply Exactly As Written? YES NO

Compartment Doors:

All doors shall be a minimum of 3" thick, framed by aluminum extrusions of labyrinth design. The door jamb extrusions shall be made from 6063-T5 aluminum. The doorframe extrusion will be continuously welded to the wall skin and a minimum, two-inch square framing extrusion. In addition to the extrusions reinforcing each outer door pan, the extrusions themselves shall be reinforced through a dual joining method. Each mitered corner, where the framed corners join shall be welded and finished smooth.

The compartment door jamb shall be welded to a minimum 2 x 2 inch tube. The door jamb trim shall also be welded on the interior where each door pin is located. All doors shall mate with the doorframe extrusion, forming a gasket area for the pneumatic door seal. The exterior door panels shall be formed to surround the extruded perimeter framing and be welded in place. Door corners shall be welded and ground smooth. The maximum space between each three quarter welds shall be fifteen inches. Gussets shall be welded in for additional strength at all corners. Interior panels shall be recessed into the extruded frame and screwed into place using stainless steel flat head machine screws and cage nuts.

Bidder Understands And Will Supply Exactly As Written? YES NO

Door Hardware:

All compartment doors over 36" high shall contain dual point rotary latches with stainless steel, slam style paddle handles. Single point latching is not acceptable due to the potential of allowing fluids and dust to enter the compartments from the exterior. No exceptions.

A nonskid easy-grip surface shall be applied to the backside of the handle to permit a gloved or wet hand from easily gripping the handle.

There shall be a rubber gasket between the paddle handle and the door.

All door latch posts shall be adjustable.

All compartment doors shall be lockable and keyed alike.

A continuous Clean Seal #50512 door gasket shall be installed 360 degrees around the entire door. All doors, except the battery compartment shall have a heavy-duty gas style hold open device.

The battery compartment shall include a bottom hinged door to allow access to the three batteries on the specified slide-out tray. Included shall be rubber bumpers to protect the door from over swing and causing damage to the hinge.

Each door shall have a continuous stainless steel hinge with a .250" pin.

Hinges shall be slotted for adjustment and attach to the door with .250 stainless steel bolts for easy removal.

Hinges shall not be riveted to body or doors. A dielectric barrier to include both "Eck" and an anti-corrosive tape shall be provided between the hinge and the doorframe. All single compartment doors on sides shall be front hinged for safety and convenience.

All doors taller than 36" high shall have two (2) latches and nader pins. No exceptions. This agency requires dual point latching top prevent road dirt and water to enter into the compartment.

Compartments requiring double doors shall provide frame latching for the second door. Both exterior compartment doors, including the "trailing door" shall have an exterior heavy-duty stainless steel paddle handle.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Door to door latching will not be acceptable.

Manufacturers that utilize an interior pull latch on the trailing door to allow the door to open will not be considered an alternate, No exceptions to this requirement.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Door Seals:

The door seals must be EPDM hollow core and provide a 360 degree uninterrupted seal with a full 1/2" of compression. Door latches shall be inboard of the seal, therefore protecting latches from dirt, moisture, and weather deterioration.

Seals shall be mounted in a way to protect them from abuse. All door latch nader pins shall be adjustable.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Compartment Sill Plates:

Inner and outer sills of all exterior compartment doorframes shall be trimmed with formed brushed stainless steel plates to protect painted surfaces. All plates shall be installed with industrial grade adhesive. No mechanical fasteners may be used.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Compartment Vents:

In order to prevent airlock inside compartments, all exterior equipment storage compartments shall be vented. There shall be two vents in each compartment, one left side, and one right side. All vents shall be above the floor line to prevent dust from entering the compartment. The only exception shall be the oxygen compartment, which may have a vent in the door and/or below the floor line. Other vents in compartment doors will not be acceptable.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Compartment Door Panels:

All exterior compartment inner door panels shall be polished diamond plate aluminum. They shall be recessed into the door extrusion and attached with stainless flathead screws and cage nuts.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Door Trim On Compartment Doors:

There shall be stainless steel formed angle trim installed on the inside of all vertically hinged compartment doors to prevent paint from chipping when unloading / loading equipment.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Door Switches:

Door jamb switches for interior lights, exterior compartment lights, door ajar lights and rear load lights shall be magnetic style with ground wire activated relays to eliminate hot wires running in door jams.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Compartment Interior Lining:

All exterior compartments shall be lined with a 100% solid electrometric polyurethane coating. This coating shall have a minimum thickness of .0625" in low wear areas and .125" to .188" in all other areas. The material shall be nonporous and allow for easy cleaning. It must be highly resistant to scratching and scuffing.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

The minimum performance specifications for this coating material are:

- | | | |
|----|---------------------|-------------|
| 1. | Shore A Hardness | 85 - 90 |
| 2. | Specific Gravity | 1.10 |
| 3. | Tensile Strength | 2,200 PSI |
| 4. | Elongation at Break | 330% |
| 5. | Tear Strength | 430 pounds |
| 6. | Melting Point | 300 degrees |

This material shall be sprayed on all compartment surfaces and finished in a mottled texture to minimize slippage, provide a water/air tight seal and to provide superior noise suppression. Electrometric Polyurethane (Vortex) Lining will not crack, peel or warp and will resist scratches. The color of this material shall be medium gray. All Vortex™ lining shall be applied in-house to ensure proper application. The color of this material shall be medium gray.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Compartment Lights:

All exterior module compartments shall be equipped with adequate 5/8" Lexan tube enclosure "Night Stik" by On Scene Solutions™ versatile LED compartment lighting. The lighting shall be installed on the corners of the compartments to allow the beam of light to be angled towards the equipment carried.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Vent Covers:

All exterior compartments shall be vented using a 5.5 x 12.25 inch vent cover. All vents shall be installed above floor line. The only exception shall be the oxygen compartment, of which shall contain a compartment door ventilation system.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Storage Compartments:

This agency seeks a closely match vehicle with the following exterior compartment layout and designed as stated. There shall be a total of three (3) compartments installed on the streetside for storage accommodations. There shall be three (3) storage compartments on the curbside of the vehicle. Bidders shall state in their bid proposal package what cost if any to change the dimensions of any of the specified compartments to accommodate the equipment carried onboard this vehicle. It is the intent of this agency to work with a vendor that will customize the module both interior and exterior to allow this vehicle to be both mechanic and medic friendly.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Curbside Front Compartment (P-1):

There shall be a curbside front inside / outside compartment installed. Compartment clear opening measurements shall be approximately 60" high x 21" wide x 26" depth / 21-3/4" depth below floor line.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Adjustable Inside / Outside Compartment Shelves (P-1):

The inside / outside right front cabinet shall have a two (2) adjustable smooth aluminum shelves. One (1) shelf shall be installed above and below the fixed permanent shelf. Each shelf shall contain a minimum 1" return lip on all four sides to create a pan style strong shelf.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Fixed Inside / Outside Compartment Shelf (P-1):

The inside / outside right front cabinet shall contain one (1) fixed shelf located in the center of the compartment opening. The shelf shall be installed prior to installation of the cabinet "Vortex" lining, therefore allowing the shelf contain the same finish as the compartment interior surface. The shelf shall not contain a return lip.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Compartment Wall Finish (P-1):

The inside / outside right front cabinet shall have a sprayed on "Vortex" interior lining. The color shall match existing color of the exterior compartments (medium gray).

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Curbside Entry Door (P-2):

There shall be a curbside entry door installed. The door clear pass thru measurements shall be approximately 80" high x 30" wide.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Curbside Rear Compartment (P-3):

There shall be a curbside rear compartment. The compartment shall be located just aft of the curb side rear wheels. This compartment shall accommodate miscellaneous equipment. Compartment clear opening measurements shall be approximately 20" high x 11" wide x 21" depth.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Curbside Rear Compartment (P-4):

There shall be a curbside rear compartment. The compartment, at minimum, shall accommodate three backboards, one Ferno Washington Model EXL scoop stretcher, two (2) KED's, board straps, head blocks and collar bag and other miscellaneous loose equipment. Compartment clear opening measurements shall be approximately 80" high x 20" wide x 21" depth.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Streetside Front Compartment (D-1):

There shall be a full height streetside front storage compartment. The compartment shall accommodate an on-board main oxygen cylinder, a Stryker #6252 stairchair and other miscellaneous equipment. Compartment clear opening measurements shall be approximately 80" high x 15" wide x 21" depth.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Streetside Intermediate Compartment (D-2):

There shall be a double door streetside intermediate storage compartment. This compartment shall accommodate miscellaneous equipment. Compartment clear opening measurements shall be approximately 34" high x 37" wide x 21" depth.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Streetside Rear Compartment (D-3):

There shall be a streetside double door rear compartment. This compartment shall accommodate miscellaneous equipment. Compartment clear opening measurements shall be approximately 62" high x 34" wide x 21" depth.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Compartment Adjustable Shelves:

There shall be a total of nine (9) smooth aluminum adjustable shelves installed. The shelf shall have a 1.5" return flange on all four sides for superior strength, creating a "pan" style shelf, unless otherwise specified. All shelves shall be lined with ribbed black rubber matting, unless otherwise specified.

Installed as follows:

- (1) D-1 Compartment. Installed above the main oxygen bottle bracket.
- (2) D-2 Compartment.
- (3) D-3 Compartment.
- (1) P-3 Compartment.
- (3) P-4 Compartment on the right side of the fixed divider.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Aluminum Vertical Divider (P-4):

There shall be one (1) fixed .188 inch "Vortex" covered aluminum vertical divider installed in the exterior P-4 compartment. The divider shall be installed approximately 16" from the left hand wall (Wall #1).

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Backboard Compartment Cushions:

There shall be two (2) removable cushions installed on the rear wall of the P-4 compartment located in the backboard area. The cushions shall be a minimum of 1 inch thick and shall contain Vortex lining. The cushions shall be secured to the wall with Velcro to allow the cushions to be removable from the compartment.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Aluminum Vertical Divider, (D-1):

There shall be one (1) fixed .188 inch "Vortex" covered aluminum vertical divider installed in the exterior D-1 compartment. The divider shall be installed to allow the oxygen bottle to be stored and shall not interfere with storage of the Styker #6252 stairchair.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Inside / Outside Access To Exterior Compartment (P-4):

The curbside rear compartment (P-4) shall have inside / outside access. Located to the right of the fixed divider (forward side of the divider). The inside / outside access shall be installed just above the stairchair area and extend to the top of the ceiling. There shall be two hinged heavy duty Plexiglas doors with metal frames installed on the interior of the patient compartment.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Inside / Outside Access To Exterior Compartment (D-3):

The streetside rear compartment (D-3) shall have inside / outside access. The inside / outside access shall be in the top one-third area of the compartment.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Compartment Floor Matting:

There shall be Black Dri-Deck™ on all exterior compartment floors. All matting shall be cut to fit each location.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Compartment Shelf Matting:

There shall be Black Dri-Deck™ on all exterior compartment shelves. All matting shall be cut to fit each location.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Double Door Compartment Latches:

There shall be paddle latches mounted on the exterior of all double door compartments. Manufacturers that utilize an interior pull latch on the trailing door to allow the door to open will not be considered an alternate. No exceptions to this requirement.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

REAR STEP & BUMPER ASSEMBLY

Rear Bumper:

There shall be a heavy-duty bumper extending to each side of the step. The under carriage shall be constructed of 4 inch aluminum channel and tubing, bolted to the body and the chassis frame rails with a minimum of eight bolts. The bumper framing shall be reinforced with an additional 4-inch aluminum support coming out from the chassis frame rails at a 45-degree angle to the outside corners of the bumper.

There shall be a 45" wide by 10" deep passenger step at the rear of the body. It shall be constructed of open face "Grip-Strut" safety grating, rigidly framed and supported. The rear step shall be hinged to allow it to be recessed folded against the rear of the body.

End sections outboard of the step shall be covered with aluminum diamond tread with all corners TIG welded. The outside corners of the covers shall be tapered 15 degrees to minimize bumper dragging.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Rear Diamond Plate Wrapper:

The vertical surface at the rear of the modular body between the rear step and the floor of the patient compartment shall be faced with full width 3003 diamond tread aluminum. The entire diamond plate panel shall be installed with stainless steel fasteners. The top edge shall be sealed prior to paint.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Recessed Rear Kick Plate:

The center section shall be recessed to allow the bumper center flip step to recess into the kick plate. When folded in the "up" position the step shall completely recess into the rear aluminum diamond tread to allow easier loading and unloading of the ambulance stretcher.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

IMPACT RAILS, STONE SHIELDS & CAB STEP COVERS

Lower Impact Rails:

There shall be rigid, two piece 6063-T5 extruded, tubular, anodized aluminum 3" by 1.5" impact rails with cast aluminum end caps installed at the lower edge of each side of the body.

The impact rails are to be mounted to and reinforced by 3" x 2" x 125" rectangular aluminum tubes which shall be the lower structural members of the body framing. Rails shall be designed to absorb impact, minimize body damage, and to be easily replaceable.

For this reason, the lower body tube described above must continuously back all impact rails.

RUB RAILS MUST BE ALUMINUM TWO PIECE EXTRUSIONS. BREAK FORMED "C" CHANNEL OR OTHER FABRICATED RUB RAILS WILL NOT BE ACCEPTABLE.

RUB RAILS ATTACHED ONLY TO THE SKIN OR VERTICAL SUPPORTS WILL NOT BE ACCEPTABLE.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Driver Cab Step:

The driver cab step shall include a .125" polished aluminum diamond plate cab step cover. The cover shall be installed on a slide-out battery tray.

The tray / cover shall allow easy access to the OEM batteries. The cover shall not rattle when closed. The slides shall be of the highest grade possible to eliminate corrosion and durability.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Passenger Cab Step:

The passenger cab step shall include a .125" polished aluminum diamond plate cab step cover. The cover shall be installed over the OEM fuel tank.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Cab Step Lights:

Each cab step shall be illuminated by Whelen 4" round level three intensity (six diode) LED lights, part #20COCDCR. The lights shall include Whelen 2G ABS chrome-plated flange kit, part #2GFLANGC. These lights shall be installed on the front of the module body and activated when either cab door is open.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Rear Mud Flaps:

The chassis shall have heavy-duty rear rubber mud flaps with metal stabilizers installed.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Compartment Sill Plates:

Inner and outer sills of all exterior compartment doorframes shall be trimmed with formed brushed stainless steel plates to protect painted surfaces. All plates shall be installed with industrial grade adhesive. No mechanical fasteners may be used.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Drip Rails:

Polished aluminum drip rails shall be installed over all exterior compartment and modular entry doors. Drip rails shall be installed with double stick tape to prevent corrosion. Drip rails installed with screws shall not be acceptable due to the likelihood of corrosion from dissimilar metals.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Front Stone Guards:

There shall be diamond tread aluminum stone shields 36" high wrapped around each front corner of the body and extending into cab depth. The top edge shall be sealed.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

ELECTRICAL SYSTEM AND COMPONENTS

T.S.T. Electrical System:

The electrical system shall be a Transportation Safety Technologies (TST), PDC System 750. A Microprocessor based electrical system with driver's and attendant's control centers. Only systems manufactured independently will be considered. This requirement assures two sources for repair and replacement. NO SYSTEMS MANUFACTURED BY THE AMBULANCE MANUFACTURER WILL BE CONSIDERED.

The vehicle electrical system supplied shall have been in active field service for a minimum of four years. The proposed system shall also have a minimum of five-hundred active systems currently in use. NO SYSTEMS WITH LESS THAN FOUR YEARS OF INFIELD USE WILL BE ACCEPTED.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

The electrical system modules shall be designed for simple, quick replacement. The system shall incorporate a fully programmable design allowing the user to select and define how the system will operate now and into the future.

All electrical and electronic components shall be selected to minimize electrical loads thereby allowing the vehicle's generating system to not only meet the vehicle's electrical load requirements but to maintain an adequate reserve generating capacity. The system shall include automatic load management and automatic high idle control.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

System Design:

The Electrical System shall be designed to continuously monitor all electrical conditions and interlocks, therefore preventing inadvertent operations, or accidental activation of its features. The entire system shall be program configurable to provide lock out security for only authorized access.

The Electrical System shall be designed to continuously monitor all electrical conditions and interlocks, therefore preventing inadvertent operations, or accidental activation of its features. The entire system shall be program configurable to provide lock out security for only authorized access.

The system shall be designed to conduct real-time diagnostics, comparing the configuration memory against that which actually makes up the system. This diagnostic shall test each element of the system and report, or alert any discrepancies. The reports shall include as a minimum, 1) open circuits, 2) manual bypass, and 3) load shed. The alerts shall be incorporated into each switch through an LED indicator. All configuration data shall be stored in a nonvolatile electrically erasable memory. This storage will insure, that any programmed memory not be lost if there is a complete system power failure. The system shall incorporate four RISC (reduced instruction sets commands) and provide for a simple, flexible operation.

The system interface board shall provide for the diagnostic troubleshoot of all input and output functions. Thereby helping to eliminate the need for auxiliary volt/amp meter testing equipment.

The Electrical System shall have on board protections, which shall be utilized to provide immunity from transients, over-current and voltage, RFI/EMI interference, and spurious signals that might negatively influence the systems performance.

All inputs and outputs shall be scanned and updated (8) eight times per second to provide an immediate response and insure that all activations were intentional.

The Electrical System shall further provide for user programmable audio responses for all critical functions, warnings and alerts. The tone volume of each audio response shall be fully programmable.

The electrical system shall incorporate status indicators that provide an operational status of all relays. Operational status shall include:

- 1) active relay 2) manual bypass 3) fault condition 4) off 5) load shed

The Electrical System shall be designed to handle up to three different meter shunts. This design shall allow each alternator to be checked individually or in combination with the batteries.

The Voltmeter shall have alarm capability and provide both visual high/low and discharge alerts for voltage. The Voltmeter can use the same display as the Ammeter and be set up to display any of the three-meter applications (shunt 1, shunt 2, or, combination) or toggle between all readouts.

The voltmeter input shall be battery direct providing for an accurate state of the battery voltage level and be compatible with the TST, HECS (hall effect current sensor) 200 and 300 devices for inductive pick up of meter inputs.

The Electrical System shall be equipped to receive inputs for various controls. All chassis inputs, except battery power, connected to the Relay Control Board will be done through a dedicated connector for these circuits. LED status indicators will be provided to show whether these signals are present at the connector.

The module portion of the ambulance will have a battery disconnect on its circuitry, which will be controlled by the ignition switch "ignition" and "accessory" modes. The device that controls battery power to the module shall be a Commander 350 with "Extended Life Technology" or equivalent module with a five-minute delay timer built into it. The disconnect shall incorporate extended life technology.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Functions Supported By The System:

To be include, the minimum:

"Touch Tek" control panel switching
Switch Backlighting Intensity (Programmable)
Load Management with Alarm
Intelligent digital High/Low Voltage Monitoring, to include monitoring with time delay
Current Metering 200/300 Amp (also available for dual alternators)
Flexible Metering of Various Signal Types
Hall Effects Current Sensor Compatible
LED Diagnostics On The Power Distribution Board
Patient Door Open Warning (Both audible and visual)
Open Compartment Door Warning System (Both audible and visual)
Emergency Warning Lights (Individual or in Sequence Programmable)
Primary / Secondary Flasher Control
Light bar Control
Left, Right and Rear Flood Light Control w/override
Patient Compartment Lighting Control
Oxygen Control
N/Safety Interlock and Override (Programmable)
Load Sequencing Up and Down (Programmable)
Throttle Control
Master Power Control
Back Up Alarm, Interlock and Override Control
Left and Right Dome Light Control (LO, HI, OFF)
Single Speed Power Exhaust
Patient Status Indicators and Alarms (both front and rear)
Vacuum Pump Control
Inverter Control
Five-Minute Check Out Light Control with Patient Door Open
Rear Climate Control Switching to include fan speed and temperature Control
Digital Thermostat (Climate Control)
Other (Spare's)

All wiring and cable assemblies shall be totally encased in protective, convoluted, high temperature, 300-degree flame resistant, automotive type, polyethylene loom. Wiring which is routed near potentially sharp edges shall be protected by grommets. Wiring harness shall not run underneath vehicle.

All wiring shall be permanently color-coded and permanently embossed with number and function codes, spaced every 4 inches on each wire.

Wiring labels that are glued or otherwise attached to the wire shall not be considered permanent and will not be acceptable.

Circuits shall serve the ambulance body and accessory electrical equipment separate and distinct from the vehicle chassis circuits.

All wiring used shall be copper with SXL thermoplastic insulation rated to 150 degrees Centigrade. All splices and terminals provided shall comply with SAE J163, J561, or J928 as applicable.

All wiring between the cab and module shall be connected to a terminal block located in a special wire terminal compartment with a hinged door for easy access.

This compartment shall be located on the interior of the module.

The completed ambulance must meet or exceed AMD Standard 005, Ambulance 12-Volt DC Electrical System.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Relay Control Board:

The Relay Control Board shall consist of a minimum of (22) twenty-two socket mounted, replaceable "plug in style" automotive relays with status LED's provided to show proper operation of all relay outputs. An additional status LED shall be provided for each relay position to indicate that the relay coil is properly operating. Each relay contained on the Relay Control Board shall be circuit breaker protected using a field replaceable manual

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

reset thermal circuit breaker. Each relay shall be equipped with an output feedback diagnostic used to provide dynamic status indicators on the front and rear panels for all relay activations.

All relays on the Relay Control Board shall be 30 amp. And shall be diode protected to prevent reverse polarity. Zener diodes shall be used to protect the system from excessive current and high voltage conditions.

The electrical system shall be able to allow for a second Relay Control Board to be added, therefore doubling the features of the standard electrical system.

All relays contained on the Relay Control Board shall have a bypass switches that will permit its output to be manually activated. Manual control of a relay shall be allowed to take place at any time during the systems operation and unlikely indicated on the front / rear control panels

A copper 600 amp buss shall provide +12 volt DC input to a common input, for a mini-mum of (20) relay positions. Two relays on the Relay Control Board shall have all five terminals available for connection. These relays shall provide for total control of the relay coil and the type of input being transferred through the relay contacts. The normally open (N/O) outputs for these relays shall be available through dual screw terminals located on the board. There shall also be a minimum of two spare relays. These spare relays shall have the ability to be either positive or negative in polarity and still provide the function the same status LED indicator as the standard relays.

The Relay Control Board shall feature a disconnect enable output that prevents loads from being "dumped" during shut down operation. Loads "on" during the shut down process shall be sequenced down automatically.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Main Power Distribution Center (MPC):

The main electrical power distribution center shall be installed in an interior cabinet, in the front of the patient compartment, positioned to allow easy access for inspection or service. The cabinet shall be accessible only from the interior of the patient compartment to preclude exposure to moisture, dirt, and other debris.

Electrical Systems located in an exterior compartment shall be unacceptable due to weather damage. A complete Owner's/Operating/Service Manual shall be provided and mounted in the electrical cabinet for easy reference. It shall contain a complete set of wiring schematics, as well as a complete narrative description of each circuit in the ambulance manufacturer's electrical system. It shall also contain the owner's manuals for all add-on and after-market components supplied by the ambulance manufacturer.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Owner's Manual:

A complete Owners/Operating/Service Manual shall be provided and mounted in the electrical cabinet for easy reference. It shall contain a complete set of wiring schematics, as well as a complete narrative description of each circuit in the ambulance manufacturer's electrical system. It shall also contain the owner's manuals for all add-on and after-market components supplied by the ambulance manufacturer.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Alternator:

See chassis specifications for description of the required alternator. The alternator must be installed and covered under warranty by chassis manufacturer.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Battery System:

See chassis specification for description of size, number, and location of batteries. The batteries must be installed and covered under warranty by chassis manufacturer. Battery cables shall be a minimum of 1/0 gauge. All battery cables shall be run in flexible conduit.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

High Idle Control:

The vehicle shall be equipped with a high-idle speed control to maintain proper generating power and prevent damage to the electrical components and devices. The OEM electronic throttle control shall be utilized to activate the hi-idle system. The system shall work when the vehicle is in "park" or "neutral" position with the parking brake set. The device shall disengage when the operator depresses the brake pedal, or the transmission is placed into gear.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Ground Straps:

A single ground connection shall exist between the system and the vehicle chassis.

Two, copper-strand, plated, woven type ground straps with crimped and soldered lugs shall be installed between modular body and chassis frame.

Two, copper-strand, plated, woven type ground straps with crimped and soldered lugs shall be installed between cab and chassis frame.

One, copper-strand, plated, woven ground strap with crimped and soldered lugs shall be installed between the engine and the chassis frame.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Front Control Panel:

The Front Control Panel shall incorporate LED backlighting with a cycle life of at least 1 million cycles for all switches and at least 100,000 hours for all high output LED's. The front control panel shall incorporate different color LED's for "on" indication of all switch functions. The high output different color LED's shall provide for clear "on" indication in various lighting conditions by actually changing colors when switch is turned on. A separate DIM switch shall permit a lower level of intensity for "on" indication during nighttime applications. All switch legend inserts shall be reverse embossed and field replaceable. All switches shall incorporate conductive rubber technology. This technology shall allow for a tactile, visual, and audible response. The switch shall also allow touch contact at all areas and have the ability to be cleaned and disinfected when necessary.

The Front Control Panel (FCP) shall have a Mylar color graphic to identify various functional groups on the panel such as warning switches, master control and accessories. The front panel shall offer fully programmable control for all Emergency Master Functions. Any non-dedicated switch on the FCP can be programmed into the emergency master switch. At start up, the system switch indicators shall illuminate to provide confirmation that voltage is reaching the switch. The Module Power switch shall be the only switch to come on when the switch is activated. In addition to the visual "on" indication, a single audio response shall be generated to conform that a switch has been depressed. In the event that a fault should exist, an audio alert and an indicator shall flash. This fault indication shall denote and provide this alert should any connection or component within that circuitry fail, or the relay it contacts fails to close.

The Primary and Secondary switches shall be mutually exclusive. Likewise, the Strobe Dim function shall be dependent upon the strobe lights being "on".

The backup lamp switch shall be a cut off for the back up alarm and shall automatically reset when the vehicle is taken out of the reverse gear. This switch shall be capable of being set prior to going in reverse, allowing the backup alarm to not activate.

Both banks of dome lights shall capable of being turned "off" from either the front or rear switch panels.

The AC/Heat control shall have switches on both front and rear panels that control these system operations and include the fan function. The system shall allow the AC/Heat to be sequenced on when the Emergency Master is activated and stay on even when the Emergency Master is turned off. The AC/Heat shall be turned off by either the ignition off or the AC/Heat switch itself.

The door ajar and compartment open indicators on the front panel shall flash anytime a door, or compartment is open. If an ignition signal is present, or when the transmission is removed from the "Park" position the flashing shall be further complimented with an audible alert.

The patient status indicators (red, amber, green LEDs) shall also have different audible alerts that provide for attention to changes in the patient status state.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

The Mode switch shall allow the operator to select the type of display desired on the digital meter. This switch shall allow for the operator to select voltmeter, ammeter or a feature to toggle between these two-meter displays.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Rear Control Panel, Streetside:

The Rear Control Panel, like the front, shall incorporate LED backlighting for all switches and high output different color LED's for "on" indication of all switch functions. The high output different color LED's shall provide for clear "on" indication by changing colors when the switch is turned on. All switches shall incorporate conductive rubber technology. This technology shall allow for a tactile, visual, and audible response. The switch shall also allow for over one million cycles and have the ability to be cleaned and disinfected when necessary. The rear panel shall have three sets of indicators for the climate control system, one each for heat and A/C to indicate which mode is "on," and one each for fan speed indication.

The rear control panel shall incorporate a climate control digital display that can be factory set to read in either Centigrade, or Fahrenheit.

A 16' temperature sensor cable shall be provided to accurately measure temperature within the patient compartment. The thermostat shall be user settable, and by selecting the up arrow or the down arrow it shall switch controls and maintain the set point with or without the need for supply voltage. Once set, the climate control system shall switch from A/C to Heat operation automatically. The fan shall always be on when the A/C Heat Switch is "on", when the A/C Heat Switch is "off" the fan motor shall be "off". The fan speed shall automatically change from lo-med-hi based upon the differential in temperature from the preset point. For example, from 0-2 degrees either side of set point the fan speed shall be on low. From 3-5 degrees either side of set point the fan speed shall be on medium. Six (6) degrees either side of set point and the fan speed shall be in high mode. Three LED status indicators shall show which mode the fan is in at all times. A fan speed override switch shall be provided to manually adjust the fan speed to any level desired. The fan shall still be allowed activate without the A/C-Heat function being on. This shall allow the air to circulate within the patient compartment.

The Climate Control relay module shall incorporate five automotive style "plug in" relays. LED's shall provide the status of all relays.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Check Out Light System:

A Check out light relay shall be located on the Relay Module and be protected by a 15 Amp mini fuse. This relay is separate from the dome relays but can be connected in parallel to a dome relay allowing check out lighting to be turned on from either the check out relay, or dome light relay. The check out light relay shall receive power from the memory power input to the system.

The check out light feature shall operate when the Module power and ignition power are "off" and/or any entry door is open. The check out light relay will come "on" when it receives a signal from any patient door and remain on for 5-minutes regardless of whether the door(s) is left open or closed. The check out lights used shall be the right bank on high function.

Once the 5-minute check out timer cycle has begun the check out lights will immediately go "off" if the module power is turned "on". If a patient door is open when the module power is turned "on", the regular dome light relay will come "on". If the ignition is "on" and the module power is "off", the check out light relay turns "On" and "Off" when door(s) open and close. The interior dome light switch shall be able to override the door post switch.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Electrical Warranty:

The Electrical warranty shall be for a period of six years or 60,000 miles. Actual warranty documentation shall be submitted within the bidder's proposal package.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Second Rear Switch Panel, Curbside:

A duplicate switch panel in the rear patient compartment, matching exact functions of the existing switch panel, shall be installed. The dual rear control panels, like the front control panel, shall incorporate LED backlighting for all switches and high output different color LED's for "on" indication of all switch functions. The high output different color LED's shall provide for clear "on" indication by changing colors when the switch is turned on. All switches shall incorporate conductive rubber technology. This technology shall allow for a tactile, visual, and audible response. The switch shall also allow for over one million cycles and have the ability to be cleaned and disinfected when necessary. The dual panels shall function independently or individually.

The rear panels shall have three sets of indicators for the climate control system, one each for heat and A/C to indicate which mode is "on," and one each for fan speed indication.

The rear control panels shall incorporate a climate control digital display that can be factory set to read in either Centigrade, or Fahrenheit.

A 16' temperature sensor cable shall be provided to accurately measure temperature within the patient compartment. The thermostat shall be user settable, and by selecting the up arrow or the down arrow it shall switch controls and maintain the set point with or without the need for supply voltage. Once set, the climate control system shall switch from A/C to Heat operation automatically. The fan shall always be on when the A/C Heat Switch is "on", when the A/C Heat Switch is "off" the fan motor shall be "off". The fan speed shall automatically change from lo-med-hi based upon the differential in temperature from the pre-set point. For example, from 0-2 degrees either side of set point the fan speed shall be on low. From 3-5 degrees either side of set point the fan speed shall be on medium. Six (6) degrees either side of set point and the fan speed shall be in high mode. Three LED status indicators shall show which mode the fan is in at all times. A fan speed override switch shall be provided to manually adjust the fan speed to any level desired. The fan shall still be allowed activate without the A/C-Heat function being on. This shall allow the air to circulate within the patient compartment.

The Climate Control relay module shall incorporate five automotive style "plug in" relays. LED's shall provide the status of all relays.

The second rear control panel shall be located directly above the curbside squad bench, head end. The control panel shall be mounted in a flat cabinet to allow ease of use and to prevent overhead obstruction. status of all relays.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Reverse Activated Alarm:

The backup lamp switch shall be a cut off for the backup alarm and shall automatically reset when the vehicle is taken out of the reverse gear. This switch shall be capable of being set prior to going in reverse, allowing the backup alarm to not activate.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Shoreline Inlet, Auto Eject:

The ambulance shall be equipped with a 2-wire plus ground 115-volt AC wiring system that is separate and distinct from the vehicle's 12-volt DC system. There shall be a 20-amp Kussmaul shoreline inlet. The 115-volt system shall incorporate a ground fault interrupter (GFI) device and shall have a 20-amp circuit breaker that can be used as a master disconnect switch. The exterior inlet shall have a top hinged, heavy-duty spring loaded inlet cover to prevent moisture. The inlet shall be located above the streetside intermediate D-2 compartment on the ambulance body. The inlet shall be properly marked 115-volt AC and shall be provided with a mating plug. A White waterproof cover shall be included.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Shoreline Inlet, HVAC:

The ambulance shall be equipped with a 2-wire plus ground 115-volt AC wiring system that is separate and distinct from the vehicle's 12-volt DC system. There shall be a 30-amp twist lock shoreline inlet installed. The 115-volt system shall incorporate a ground fault interrupter (GFI) device and shall have a 30-amp circuit breaker that can be used as a master disconnect switch. The exterior inlet shall have a top hinged, heavy-duty spring loaded inlet cover to prevent moisture. The inlet shall be located above the streetside intermediate D-2

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

compartment on the ambulance body. The inlet shall be properly marked 115-volt AC and shall be provided with a mating plug. This shoreline shall be wired to the 110V heat / air conditioning system.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Shoreline "On" Indicator Light:

A Whelen Amber #OSAOOMCR LED light shall be mounted directly above each shoreline inlet. The light shall contain a chrome housing. The indicator light shall illuminate when the shore power is connected to the vehicle identifying that power is being supplied to the vehicles specified outlets and electrical components.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Inverter / Battery Charger:

A Vanner model number 20-1050 CUL, 1050 watt inverter with 55 amp charger and display shall be supplied and installed. The inverter shall be equipped with an automatic transfer relay that disconnects the inverter when the shore power is applied. A remote on/off switch shall be provided in the attendant control panel. The unit shall be installed in the base of the electrical closet with access from the main electrical closet door. The inverter display shall be located on the electrical closet door above the attendant seat. The battery charger display shall be located on the side of the front console.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Action Area 12-Volt Outlet:

The patient action area shall be furnished with one (1) 12-volt, Cigarette style outlet.

This separately protected circuit shall be located in the action area. A Cigarette style connector with mating plug and polarity requirements shall be supplied.

This circuit shall also include a SCHOTTKY' diode isolator with heat sink to isolate medical equipment and medical equipment batteries from any electrical loads that the remainder of the ambulance electrical system may impose.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Right Front Stack Cabinet 12 Volt Outlets, Two (2):

The right front stack (RFS) interior cabinet shall be furnished with two (2) 12-volt, cigarette style outlets.

These separately protected circuits shall be located in the RFS area. Cigarette type connectors with mating plugs and polarity requirements shall be supplied.

This circuits shall also include a "SCHOTTKY" diode isolator with heat sink to isolate medical equipment and medical equipment batteries from any electrical loads that the remainder of the ambulance electrical system may impose internal 12-volt power.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Lower Bulkhead Area 12-Volt Outlet:

The area above the front lower pass thru cabinet, left wall, shall be furnished with a 12-volt, cigarette style outlet. This outlet shall be wired direct to the vehicles 12-volt battery system.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Additional 12-Volt Outlets:

Two (2) additional 12-volt, cigarette style outlets shall be installed. These outlet shall be wired direct to the vehicles 12-volt battery system.

(1) Above the head end of the squad bench near the side entry door.

(1) Main action area, near side CPR seat.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Action Area 115 Volt Outlet:

An interior duplex outlet shall be installed in the action area. An Indicator light shall be included at the outlet to indicate when 115v AC power has been applied. The outlet shall be labeled "115v AC". This 115v AC system, including wiring and associated equipment, shall comply with AMD Standard 009.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Right Front Stack Cabinet 115 Volt Outlets, Two (2):

There shall be two (2) interior duplex outlets installed in the R.F.S. cabinet. An indicator light shall be included at the outlets to indicate when 115v AC power has been applied. The outlets shall be labeled "115v AC". The 115v AC system, including wiring and associated equipment, shall comply with AMD Standard 009.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Additional 115 Volt Outlets:

Four (4) additional interior duplex outlets shall be installed in the vehicle. An indicator light shall be included at the outlets to indicate when 115v AC power has been applied. The outlets shall be labeled "115v AC". The 115v AC system, including wiring and associated equipment, shall comply with AMD Standard 009.

Installed:

- (1) Main action area, near side CPR seat.
- (1) Cabinet above the front lower pass thru cabinet, left wall.
- (1) Above the head end of the squad bench near the side entry door.
- (1) Above the foot end of the squad bench.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Engine Block Heater:

There shall be an OEM engine block heater installed as per OEM. No other modifications shall be done as part of the ambulance conversion.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

On-Board Computer:

The vehicle shall be pre-wired for an on-board computer and printer to be installed in the vehicle. Pre-wiring shall include appropriate 12-volt wiring and 115 VAC outlets as determined by this agency.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

IV Warmer Tray:

The vehicle shall be equipped with a 12-volt Smithworks IV fluid warmer tray. The unit shall be installed as directed by this agency. The tray shall be wired direct to the 12-volt battery system and shall be turned off/on from a switch on the front of the unit.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Power Door Locks:

All module exterior compartments and module entry doors shall have power locks installed, eight (8) total. These power locks shall be activated from the OEM cab area and be thermally protected with a pulsed signal.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Exterior Remote Unlock Switch, Rear:

A weatherproof hidden, power door unlock switch shall be installed in the rear license plate area.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Exterior Remote Unlock Switch, Front:

A weatherproof hidden, power door unlock switch shall be installed in OEM grille area.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Interior Power Door Lock Switches:

Two (2) module interior body power door lock switches shall be installed. One (1) shall be installed on the curbside module entry door and one (1) shall be on the rear module entry door (right side door). The power door lock switches shall use a pulsed signal and provide both lock and unlock for all designated doors.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Module OEM Radio Speakers:

There shall be two Kenwood or equivalent speakers recessed into the ceiling of the patient compartment. Volume control mounted in the streetside action area. The speakers shall be wired to the OEM AM/FM cab stereo system.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Module DVD Speakers:

There shall be two Kenwood or equivalent speakers recessed into the ceiling of the patient compartment. Volume control mounted in the streetside action area. The speakers shall be wired to the drop down DVD player.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Handlights, Pre-Wiring:

The vehicle shall be pre-wired only for two (2) individual 12V circuits for department supplied and installed handlights. All pre-wiring shall terminate in the exterior D-2 compartment.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Rear DVD Player:

There shall be a ASA Jensen 17" ceiling mounted DVD player model #JE17FDTV installed. The unit shall be mounted at the rear of the module at ceiling height. It shall include a vinyl covered box. Included shall be two wireless headphones. Additionally, the unit shall be wired to external speakers installed in the module.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Back Up Camera:

The vehicle shall include an Audiovox ceiling mounted rear view observation (back-up camera) system. The camera shall be mounted on the exterior of the module over the rear doors. The camera shall be wired to turn on when the vehicle is placed in reverse. The camera shall be connected to a 5" LCD monitor in the vehicle cab.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Wiring Diagrams:

The vehicle shall be equipped with "as-built" custom wiring schematics / diagrams. *NO EXCEPTIONS.*

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

INTERIOR LIGHTING

Oxygen Compartment Light:

An oxygen compartment light shall be installed and controlled from the action area control panel or second control panel over the curbside squad bench. The light shall be a Whelen 4" round level three intensity (six diode) LED light, part #20COCDCR. The light shall include Whelen 2G ABS chrome-plated flange kit, part #2GFLANGC.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Stepwell Illumination:

Each side entry step well shall be illuminated with a Whelen White LED light with chrome base, Whelen part #OSCOEDCR.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Whelen LED Ceiling Lights:

The patient compartment shall be illuminated, by a minimum of ten (10) Whelen # 86CE1 12-diode LED ceiling lights. These lights shall be mounted to .125 inch aluminum ceiling plates. NO EXCEPTIONS.

The left and right banks of lights shall each have their own "high" and "low" switch positions. The right bank "high" setting shall also be activated by doorjamb switches at the side and rear doors. A 5-minute timer shall activate one bank of lights on "high" when the ignition is off.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Action Area Light, LED:

The rear streetside main action area shall include a 12" Grote #60591 Clear LED light. The light shall be controlled from a switch integral of the light fixture.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Center LED Strip Lights:

Four (4) Whelen # 86CE1 12-diode LED lights shall be installed in the ceiling of the patient compartment. They shall be evenly spaced down the center of the vehicle.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Center Strip Light Timer Activation:

The four (4) Whelen #86CE1 12-diode LED lights installed in the center of the ceiling of the patient compartment shall be capable of operating thru a 60-minute spring wound time located on the curbside wall above the squad bench near the switch panel, direct to the vehicles 12 volt battery system. These lights will operate on the "high" intensity only.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Center Strip Light Activation, 12V Circuit:

The four (4) Whelen #86CE1 12-diode LED lights installed in the center of the ceiling of the patient compartment shall be operational thru a switch in both rear control panels and thru the front control panels labeled "Center Lights". These lights shall operate thru the 12 volt T.S.T. electrical system. These four (4) lights shall operate on "high" intensity only.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

EXTERIOR LIGHTING:

Whelen "LED" Stop/Tail Lights:

There shall be two (2) Whelen M6 Series "LED" stop / tail lights with chrome trim bezels installed. These lights shall be mounted above the rear kick panel. The lights shall exceed S.A.E. requirements.

Bidder Understands And Will Supply Exactly As Written? YES NO

Whelen "LED" Turn Lights:

There shall be two (2) Whelen M6 Series "LED" populated amber turn signals with chrome trim bezels installed. They shall be wired to flash sequentially in the direction of the arrow. These lights shall be located on the rear of the module directly above the Whelen M6 series LED back-up lights.

Bidder Understands And Will Supply Exactly As Written? YES NO

Whelen Back-Up Lights:

There shall be two (2) Whelen M6 Series LED backup lights with chrome trim bezels installed. The lights shall be located on the rear of the module between the Whelen LED turn arrows and the Whelen LED stop / tail lights.

Bidder Understands And Will Supply Exactly As Written? YES NO

Whelen Rear Load Lights:

There shall be two (2) reverse activated, Whelen M9 series LED rear scene / load lights installed directly above the rear entry doors, Whelen part #M9ZC. Each light shall contain built in optics providing 8-32 degree light spread. The scene lights shall meet or exceed federal specification KKK-A-1822E. The scene lights shall meet or exceed federal specification KKK-A-1822E. All scene lights shall have bright chrome flanges. These lights shall be automatically activated when the vehicle is placed into reverse mode.

Bidder Understands And Will Supply Exactly As Written? YES NO

Streetside Scene Lights:

There shall be two (2) Whelen M9ZC series LED scene lights installed on the streetside of the vehicle. They shall be located at the top of the module next to the warning lights. The light head refraction design shall create a flood of light and shall be optically projected at a downward angle approximately thirteen degrees from the horizontal plane. The scene lights shall meet or exceed federal specification KKK-A-1822F. All scene lights shall have ABS bright chrome flanges.

Bidder Understands And Will Supply Exactly As Written? YES NO

Curbside Scene Lights:

There shall be two (2) Whelen M9ZC series LED scene lights installed on the curbside of the vehicle. They shall be located at the top of the module next to the warning lights. The light head refraction design shall create a flood of light and shall be optically projected at a downward angle approximately thirteen degrees from the horizontal plane. The scene lights shall meet or exceed federal specification KKK-A-1822F. All scene lights shall have ABS bright chrome flanges.

Bidder Understands And Will Supply Exactly As Written? YES NO

Module Center Flood Lights:

There shall be one (1) Whelen Pioneer Plus Series dual panel super LED floodlights installed on each side of the module, part #PFP2. The lights shall be centered between each of the required LED side scene / load lights. Both lights shall include semi-recessed mount with chrome trim ring, housing mounts the floodlights

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

straight out or at a 15-degree downward angle, part #PBA203. The lights shall illuminate with the appropriate side flood light circuit.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Reverse Activated Side Scene Lights:

The rear most scene lights on each side of the module shall be automatically activated when the vehicle is placed into reverse.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Right Side Scene Lights “On” With Open Side Entry Door:

The right side scene lights shall come on when the side entry door is opened.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Marker Lights:

The exterior ambulance body ICC lights shall be Whelen “OS” Series LED marker/clearance lights with chrome trim ring, part #OSROOMCR (red) and part #OSAOOMCR (amber). They shall be installed as high on the body as possible.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

License Plate Bracket:

The vehicle shall be equipped with a Cast Products, Inc. cast aluminum license plate bracket located in the center portion of the rear diamond plate kick panel. The bracket shall contain LED lighting.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Compartment Door “LED” Light:

There shall be one (1) Whelen Model 4” Round Series TIR6 Super LED flashing door light (Whelen Part #2FR00ZRR) installed on all forward hinged / rear facing exterior compartment interior lower door panels. The lights shall include chrome trim ring (Whelen Part #2FLANGEC).

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Underbody Module Ground Lighting:

There shall be eight (8) Whelen Engineering 2G series 4-inch clear LED underbody lights installed on the module. There shall be three (3) streetside, three (3) curbside, and two (2) under the rear bumper end covers. These lights shall automatically activate when the vehicle is placed into “Park” and the emergency brake is applied. The lights shall be wired to a separate switch in the front console labeled ‘Ground Lighting’. All lights shall be angled to improve the visibility at the sides and rear of the module. Whelen part #20COCD, level three intensity with deutsch connector. The lights shall be mounted in a rubber grommet.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Cab Underbody Ground Lighting:

There shall be one (1) Whelen Engineering 2G series 4-inch clear LED lights installed under each cab step, two (2) total. These lights shall automatically activate when the vehicle is placed into “Park” and the emergency brake is applied. The lights shall be wired to the front console switch labeled “Ground Lighting”. Whelen part #20COCD, level three intensity with deutsch connector. The lights shall be mounted in a rubber grommet.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Fog Lights:

The vehicle shall be equipped with two (2) PIAA #9451 combination driving lights / fog lights recessed into the OEM holes in the chrome front bumper. The lights shall be operated through separate switches in the front console; "Fog Lights" and "Driving Lights".

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

RADIO PROVISIONS:

Antenna Coax:

Four (4) KE-794 antenna bases with coaxial cable and PL- 259 connector shall be installed as described. All cables shall be spaced apart by a minimum of 18". All cables shall have a 36" service loop. Rain caps shall be added to all unused antenna bases on the module roof.

Locations as follows:

- (1) Front module roof to the driver's seat base.
- (1) Mid module roof to the driver's seat base.
- (1) Mid module roof to the driver's seat base.
- (1) Rear module roof to behind the streetside drivers switch panel.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Radio Power / Ground Circuit #1:

There shall be one (1) covered buss bar located behind the driver seat base. Included shall be hook up for direct to battery / ignition on circuits / ground. All power wires must be a minimum of 10 gauge.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Radio Power / Ground Circuit #2:

There shall be one (1) covered buss bar located behind the rear switch panel. Included shall be hook up for direct to battery / ignition on circuits / ground. All power wires must be a minimum of 10 gauge.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Curbside Radio Panel:

There shall removable panel located on the curbside wall directly above the squad bench, head end. The panel shall be a solid wood panel laminated with color coordinated Formica. The panel shall allow a two- way radio to be recessed into the panel. The panel shall be located near the curbside second switch panel.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Two-Way Radio Requirements:

The following radio system / components shall be supplied and installed prior to delivery:

One (1) Kenwood TK-890HBK CMED, 110 watt with dual heads. One (1) radio head shall be installed in the cab and one (1) radio head shall be installed in the patient compartment main action area.

One (1) Kenwood TK-790K Fire / Police, single head mounted in the cab console.

Two (2) Kenwood TK-290 portable radios. The portable radios shall include rapid rate chargers and shall be mounted in the cab of the vehicle.

All radios shall be complete and include, at minimum, assembly, installation, programming to department requirements, filters and antennas.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

SIREN AND EMERGENCY LIGHTING

Siren:

There shall be a Whelen model number WS295HFSA7 (includes dual amp) siren system installed. The siren shall include a removable microphone. The siren shall be located directly below the front TST switch panel, unless otherwise directed by this agency.

Bidder Understands And Will Supply Exactly As Written? YES NO

Siren Speaker Assembly:

The vehicle shall be equipped with Cast Products, Inc. siren speakers located in the front bumper. Included shall be 100 watt driver for each siren speaker assembly, Part #SAD4307 and #SAP4307.

Bidder Understands And Will Supply Exactly As Written? YES NO

Whelen M9 "LED" Side Module Warning Lights:

There shall be four (4) Whelen model M9 RED LED side module warning lights installed. There shall be two lights mounted on each side of the body on the top upper outside corners, but below the drip rail. The lenses shall be Red. These lights shall be wired in accordance with the KKK required "Primary / Secondary" circuit.

Bidder Understands And Will Supply Exactly As Written? YES NO

Whelen M9 "LED" Front Module Warning Lights:

There shall be two (2) Whelen model M9 RED LED front module warning lights installed on the outer most corners of the module body. The lenses shall be Red. These lights shall be wired in accordance with the KKK required "Primary / Secondary" circuit.

Bidder Understands And Will Supply Exactly As Written? YES NO

Whelen M9 "LED" Rear Module Warning Lights:

There shall be two (2) Whelen model M9 RED LED rear module warning lights installed on the outer most corners of the module body. The lenses shall be Red. These lights shall be wired in accordance with the KKK required "Primary / Secondary" circuit.

Bidder Understands And Will Supply Exactly As Written? YES NO

Whelen M9 "LED" Amber Center Rear Module Warning Light:

There shall be one (1) Whelen model M9 AMBER LED center rear module warning light installed. The lens shall be Amber. This light shall be wired in accordance with the KKK required "Primary / Secondary" circuit.

Bidder Understands And Will Supply Exactly As Written? YES NO

Whelen M7 "LED" Forward Facing Grill Lights, Lower:

There shall be two (2) Whelen model M7 RED LED forward facing lights installed in the cab grill. The lenses shall be Red. These lights shall be wired in accordance with the KKK required "Primary / Secondary" circuit.

Bidder Understands And Will Supply Exactly As Written? YES NO

Whelen M7 "LED" Intersection Lights:

There shall be two (2) Whelen model M7 RED LED intersection lights installed in the cab front fenders. The lenses shall be Red. These lights shall be wired in accordance with the KKK required "Primary / Secondary" circuit.

Bidder Understands And Will Supply Exactly As Written? YES NO

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Whelen M7 "LED" Rear Wheel Well Lights:

There shall be two (2) Whelen model M7 RED LED rear wheel well lights installed, one (1) each side. The lenses shall be Red. These lights shall be wired to the "Rear Flasher" circuit.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Whelen M7 "LED" Forward Facing Grill Lights, Upper:

There shall be two (2) Whelen model M7D RED / CLEAR LED forward facing lights installed in the upper portion of the cab grill. The lenses shall be Clear. These lights shall be wired to the "Front Lightbar" circuit.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Whelen LED Front Light Bar:

A Whelen 9000 full width (88") surface mount front light bar shall be installed. It shall include ten (10) sections with eight (8) Red 400 series Red LED flashers and two (2) Clear 400 series LED flashers. The Red LED flashers shall be wired to a switch in the front console labeled "Front Lightbar". The Clear LED flashers shall be wired to the vehicles primary / secondary lighting system. The lens pattern shall be from left to right facing the lightbar: Red LED/Red LED/ Red LED/Red LED/Clear LED/Clear LED/Red LED/Red LED/Red LED/Red LED. The light bar shall include three (3) amber LED ICC lights.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Whelen M9 "LED" Upper Rear Module Warning Lights:

There shall be two (2) Whelen M9 LED lights installed on the rear of the module at the top of the roof line just inboard of the required RED LED KKK lighting, yet outboard of the rear load / scene lighting. These lights shall be wired to the switch in the front console labeled "Rear Flashers". LED light color and lens colors shall be determined.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Whelen M9 "LED" Upper Rear Window Level Lighting:

There shall be two (2) Whelen M9 LED lights installed on the rear of the module that shall be visible from the top of the rear door windows when the rear entry doors are open. These lights shall be wired to the switch in the front console labeled "Rear Flashers". The upper and lower lights shall flash in "X" pattern. LED light color and lens colors shall be determined.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Whelen M9 "LED" Lower Rear Window Level Lighting:

There shall be two (2) Whelen M9 LED lights installed on the rear of the module that shall be visible from the bottom of the rear door windows when the rear entry doors are open. These lights shall be wired to the switch in the front console labeled "Rear Flashers". The upper and lower lights shall flash in "X" pattern. LED light color and lens colors shall be determined.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

LED Flasher #1:

There shall be a Whelen AFM560 flasher installed in the rear electrical closet. The flasher shall be wired to the required "Primary / Secondary" lighting system. Located near the flasher shall be a momentary push button to allow changing of the flash patterns remotely. This agency does not recognize any manufacturer that incorporates the flashers as part of the electrical system. This agency desires external Whelen flashers in conjunction to the specified Whelen lights as part of a complete and tested package.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

LED Flasher #2:

There shall be a Whelen AFM560 flasher installed in the rear electrical closet. The flasher shall be wired to the "Rear Flasher" switch / circuit. The "Rear Flasher" lights shall include the lights above each rear wheel well intersection lights, both upper rear module lights inboard of the required KKK lighting and all four (4) lights at window level. Located near the flasher shall be a momentary push button to allow changing of the flash patterns remotely. This agency does not recognize any manufacturer that incorporates the flashers as part of the electrical system. This agency desires external Whelen flashers in conjunction to the specified Whelen lights as part of a complete and tested package.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

LED Flasher #3:

There shall be a Whelen AFM560 flashers installed in the rear electrical closet. The flasher shall be wired to the "Front Lightbar" switch / circuit. The "Front Lightbar" lights shall include the upper grille lights and the RED LED lights in the front lightbar. Located near the flasher shall be a momentary push button to allow changing of the flash patterns remotely. This agency does not recognize any manufacturer that incorporates the flashers as part of the electrical system. This agency desires external Whelen flashers in conjunction to the specified Whelen lights as part of a complete and tested package.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Exterior Light Housings:

All Whelen exterior lights shall contain chrome flange kit.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

PATIENT COMPARTMENT:

Cabinet Construction:

Cabinets shall be constructed of 5-ply, furniture grade, solid core, exterior-rated plywood. Cabinet interiors and exteriors shall be covered with plastic laminate. All cabinets shall be constructed using both glue and screws for maximum strength. Screws shall be a maximum of 10" from each other. All exterior radius comas shall have a 6063-T5 aluminum extrusion installed. This extrusion shall be screwed in place from inside the cabinet.

THE USE OF STAPLES IN THE ASSEMBLY OF CABINETS SHALL NOT BE ACCEPTED.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Cabinet Doors:

The cabinet openings shall have sliding acrylic doom, hinged doors, or a combination of both. The sliding doors shall slide in felt / nylon lined 4-sided aluminum extrusions that completely surround each opening. Each sliding door shall have a full height beveled corner extruded aluminum handle on the outer edge. This shall provide additional strength and rigidity. All hinged doors shall have a polished Sinless Steel hinge with .125" pin diameter.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Impact Protection:

All corners subject to abuse shall be protected for durability and for occupant safety. A 6063-T5 aluminum X-frame with a radius shaped corner piece shall be used on any corner not protected by a padded vinyl covered cushion.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Cabinet Shelves:

All cabinets over 14" high shall have rattle free, fully adjustable shelves laminated with plastic laminate (Formica or equivalent). All shelves shall include unistrut tracking to allow the shelves to be infinitely adjustable and bolt into position to prevent rattling. A polished stainless steel lip shall be provided on all shelf outer edges.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Cabinet Attachment:

All interior cabinets including the squad bench shall be bolted securely to modular body frame members and floor. The attachment bolts shall be a minimum 1/4" machine grade bolts. All fasteners and washers shall be stainless steel, or coated to protect from corrosion or another non-corrosive material. All cabinets must be removable for ease of future interior modification.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Patient Compartment Testing:

The vehicle shall meet or exceed AMD Standard 006, "Sound Level Test Code for Ambulance Compartment Interiors" and AMD Standard 007, "Carbon Monoxide Levels for Ambulance Compartment Interiors".

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Warranty:

The interior cabinet warranty shall be for a period of fifteen years. Actual warranty documentation shall be submitted within the bidder's proposal package.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Interior Formica Laminate:

The interior wall paneling shall be laminated with a "Sparkle" finish plastic laminate. The edges shall be finished smooth and all joints fitted. Formica manufacturers different types of laminate finish (Matte and Glossy), of which are popular by many ambulance manufacturers, however, due to the heavy use this agency does not recognize any other finish of laminate other than "Sparkle #42".

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Sliding Cabinet Doors:

There shall be quarter inch "clear" Plexiglas sliding cabinet doors on all interior cabinets. The sliding door handle shall be made from an aluminum extrusion and shall run the full length of the Plexiglas door. The full-length door handle corners shall be cut at forty-five degrees.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Seat Cushions and Head/Back Cushion Areas:

All cushions shall be made of 2-inch high-density foam. They will be covered by not less than 32oz. Enduralex vinyl. There shall be no piping or seams on the inboard edge of the cushions. To enhance cleaning and disinfecting, the upholstery shall not include any stitched pattern on the outer surface of the material. The cushions shall be installed using heavy-duty Velcro to allow for easy cleaning and removal. The counter top colors shall be determined at time of bid award.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Flooring:

On top of the .125' extruded aluminum floor surface, shall be 9 mm underlayment sheeting. This sheeting shall be both glued and screwed in place. Indentations from screw heads shall be filled with wood putty to provide a smooth solid surface. The patient compartment floor shall be covered with a heavy duty, commercial grade, and vinyl. The flooring shall meet ASTM F1303-95 and NFPA 253. The flooring shall also have an antimicrobial

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

formulation to inhibit growth of Staphylococcus aureus, Bacillus subtilis, Escherichia coli, and Pseudomonas aeruginosa.

All edges shall be formed into a curved radius extending upward a minimum of 4" on each side of the patient compartment to facilitate cleaning.

A plastic cove molding shall be utilized on the reverse side of the flooring to provide support under the radiused portion of the flooring. Flooring shall fit flush with the side interior cabinetry laminate without the use of added trim moldings.

Flooring that requires the use of additional molding to trim all floor edges is unacceptable due to the difficulty in preventing dirt, bacteria, mold, mildew, and blood borne pathogens from collecting around and behind the trim pieces.

All joints shall be sealed with a silicone sealer.

The flooring style and color to be decided at time of bid award.

Note: The one piece flooring shall extend up both the streetside and curbside walls by 6 inches.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Cabinet Welting:

There shall be color matched automotive grade welting placed between the cabinet sections. Color shall be determined at time of bid award.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Solid Surface Counter Tops:

The counter top shall be one piece, seamless, nonporous, solid surface and nonmetallic with a formed recessed center area to contain equipment, supplies, and fluids when vehicle is in motion. The entire countertop shall include three piece glued together and ground smooth to create a seamless countertop. The counter top lip shall be a minimum of one inch. Included shall be a center color contrasting of the upper and main countertop. The counter top colors shall be determined at time of bid award.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Cot Mount:

A Ferno Washington Model #175-4 complete removable cot fastening kit shall be installed. The cot mount shall be for a side and center position cot. The kit shall contain a front antler bracket to secure the front wheels of the ambulance cot, a rear fastener rail to secure the cot frame and all necessary bolts and brackets to secure to the cot mounting in the patient compartment floor.

The cot fastener installation must meet or exceed AMD Standard 004, Litter Retention System.

NOTE: This agency requires a custom location of the actual cot mount. The cot mount, when installed, shall allow full use of the side CPR seat.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Ambulance Cot:

The vehicle shall be equipped with one (1) new Ferno Washington Model 93-P PROFlexx™ ambulance cot. The cot shall be complete with all standard features including; mattress and patient restraint straps. Other options shall include IV pole, and sofNet drop frame storage. Ambulance cot shall be "Rescue Red".

<i>Bidder Understands And Will Supply Exactly As Written?</i>	<i>YES</i>	<i>NO</i>
--	-------------------	------------------

Left Rear Overhead Cabinet:

There shall be a left rear overhead cabinet with combination sliding / speed load Plexiglas doors installed. The bottom of the cabinet is to be sweep-out style. The cabinet doorframe shall be secured at the top by a full-length piano hinge. The entire frame shall hinge upward and be held in place by gas piston hold-open devices. The cabinet frame shall be held in the down position by two spring-loaded dead bolt style slide catches. The vertical ends of the speed load framed cabinet will have EPDM rubber foam to protect the handles from damage. All speed load cabinets that are taller than 23" and wider than 32" shall have an 1/8" x 1-1/2" anodized aluminum

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

support. The interior cabinet dimensions shall be 32" wide x 18.75" high x 19.75" deep. This cabinet shall contain one (1) adjustable shelf each side of the center support / vertical divider.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Side CPR Seat Cabinet:

There shall be a cabinet above the side CPR seat with combination sliding / speed load Plexiglas doors installed. The bottom of the cabinet is to be sweep-out style. The cabinet doorframe shall be secured at the top by a full-length piano hinge. The entire frame shall hinge upward and be held in place by gas piston hold-open devices. The cabinet frame shall be held in the down position by two spring-loaded dead bolt style slide catches. The vertical ends of the speed load framed cabinet will have EPDM rubber foam to protect the handles from damage. The interior cabinet dimensions shall be 26" wide x 8.5" high x 8.5" deep.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Left Front Overhead Cabinet:

There shall be a left front overhead cabinet with combination sliding / speed load Plexiglas doors installed. The bottom of the cabinet is to be sweep-out style. The cabinet doorframe shall be secured at the top by a full-length piano hinge. The entire frame shall hinge upward and be held in place by gas piston hold-open devices. The cabinet frame shall be held in the down position by two spring-loaded dead bolt style slide catches. The vertical ends of the speed load framed cabinet will have EPDM rubber foam to protect the handles from damage. All speed load cabinets that are taller than 23" and wider than 32" shall have an 1/8" x 1-1/2" anodized aluminum support. The interior cabinet dimensions shall be 50" wide x 23" high x 19.75" deep. This cabinet shall contain one (1) adjustable shelf each side of the center support / vertical divider.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Left Rear Base Cabinet:

There shall be a left rear base cabinet with sliding Plexiglas doors installed. This cabinet shall contain inside / outside access to the exterior D-3 compartment. The vertical ends of the framed cabinet will have EPDM rubber foam to protect the handles from damage. The overall cabinet frame shall be approximately 28" wide x 26" high.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Action Area Cabinet:

There shall be an action area cabinet with sliding Plexiglas doors installed. The sliding door handle shall be made from an aluminum extrusion and shall run full length of the Plexiglas door. The full-length handle corner shall be cut at forty-five degrees. The vertical ends of the framed cabinet will have EPDM rubber foam to protect the handles from damage. The interior cabinet dimensions shall be 33.75" wide x 11" high x 9" deep.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Action Area Switch Panel:

The attendant's action area shall have a slanted panel to accommodate the T.S.T control switch panel, volume control for the rear speakers and a two-way radio control head. This cabinet shall be integral of the "action area cabinet" to create a clean uniform appearance without sharp edges.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Shoreline Access Panel:

The action area shall contain a removable panel at the forward most section of the main cabinet to access the back portion of the exterior shorelines.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Streetside Waste And Sharps Accommodations:

Located under the main action area shall be a combination side-by-side tip out style sharps and waste storage containers. A three-quarter height bottom hinged access door shall be supplied to remove either container. Both units shall be interchangeable in the specified location. Included shall be a Rubbermaid #2952 waste container and a Sage #8970 sharps container. The exterior D-2 compartment shall be modified to accommodate this cabinet requirement.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Side Facing CPR Seat:

A seat approximately 25" (excluding hip pads) shall be recessed into the street side cabinet wall directly rearward of the main action area. A 2" thick foam seat cushion, a backrest a left, and a right thigh protection cushion all covered with heavy-duty vinyl shall also be provided. There shall be no piping on the cushions to accumulate contaminated material MI seams shall be sealed to repel contaminants. A seat belt with outside wall-mounted retractors shall be provided. Upper cabinets shall have left and right head protector cushions to match the seat cushion. Note: this agency is seeking a custom location of the side CPR seat relative to the position of the stretcher when mounted in the vehicle.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Attendant Seat:

There shall be a high back, vacuum formed EVS brand combination attendant seat / child seat The EVS seat shall be a captain's chair-type attendant seat located a the front of the patient compartment. This seat shall be covered with color coordinated heavy-duty vinyl with heat sealed seams for ease of cleaning. The seat shall include a 3-point lap and shoulder safety harness with push button release and a 5-point chilled restraint harness with push button release. The seat shall have a fore and aft adjustment of six inches on heavy duty sliding tracks. The seat shall be mounted on an EVS swivel pedestal base. This and all seats in the patient compartment shall meet all FMVSS requirements. (EVS states that this is "not an infant seat", it is not to be used by children less than one year old. Recommended for children who weigh between 20 and 50 pounds, and are 28 to 47 inches tall and capable of sitting upright alone). Exact color of the attendant seat shall be determined at time of bid award.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Electrical Cabinet:

A storage cabinet shall be installed on the left front wall behind the rear facing attendant seat. Access shall be gained from behind the attendant seat. This cabinet shall be for storage of the Power Distribution Center.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Cabinet Below The Cab To Module Pass-Thru:

There shall be a cabinet mounted below the sliding cab / module access. The top portion of the cabinet shall contain a solid surface countertop with integral retaining lip. The color and design shall match the existing countertops installed in the patient compartment.

Directly below the countertop shall be a full depth storage cabinet to accommodate miscellaneous equipment. This cabinet shall include (2) adjustable shelves. There shall be two (2) solid wood doors to access the storage area. The interior cabinet dimensions shall be approximately 20" wide x 26.75" high x 16" deep.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

Cabinet Above The R.F.S:

There shall be a cabinet mounted above the right front stack area. This cabinet shall be located at ceiling height. This cabinet shall accommodate an Iron Duck controlled substance drug box. Cabinet interior measurements shall be approximately 12" high x 22" wide x 17" depth.

Bidder Understands And Will Supply Exactly As Written?

YES

NO

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Right Front Upper Cabinet:

A storage cabinet shall be installed on the right front wall, upper section that permits equipment to be accessed from either the patient compartment through dual hinged wood doors with Plexiglas inserts or through the exterior compartment door (P-1). The interior cabinet dimensions shall be 21" wide x 27" high x 22" deep.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Right Front Lower Cabinet:

A storage cabinet shall be installed on the right front wall, lower section that permits equipment to be accessed from either the patient compartment through dual hinged wood doors with Plexiglas inserts or through the exterior compartment door (P-1). The interior cabinet dimensions shall be 21" wide x 27" high x 22" deep

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Curbside Squad Bench:

The ambulance shall be equipped with a squad bench approximately 73" long by 22" wide. The squad bench lid shall have a 2" foam pad covered with color coordinated heavy-duty vinyl. There shall be a one-piece squad bench lid, and have two heavy-duty, gas piston hold-open devices to allow the lid to remain open. The lid shall be attached to the bench with a continuous hinge. A self-latching, stainless steel, paddle style-latching device shall be installed to allow the lid to remain positively closed.

The lid shall be finished with minimum 2' thick cushion. There shall be no piping and all seams shall be sealed to preclude absorption of contaminants. The cushion shall be installed with industrial grade, plastic hook and loop Velcro for easy removal and cleaning.

Three sets of encased restraints and seat belts shall be installed on the squad bench. Retractors shall be installed against the outer wall.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Post And Wheel Cups:

The squad bench cushions shall not include cut outs or any bolted accessories for post and wheel cups.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Squad Bench Retention System:

There shall be a stainless steel "A" bar rigidly mounted and removable with sharps and waste attached located at the head end of the squad bench.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Squad Bench Backrest Cushion:

There shall be a backrest covering the wall directly behind the squad bench. This backrest shall be a minimum of 2" thick and shall be constructed of high-density foam and heavy-duty automotive grade vinyl. There shall be no piping and all seams shall be sealed to repel contaminated material.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Squad Bench Bandage Cabinet:

There shall be a two-section bandage cabinet with combination sliding / speed load Plexiglas doors mounted above the squad bench. The bottoms of the cabinets shall be sweep-out style. The cabinet doorframes shall be secured at the top by a full length piano hinge. The entire frame shall hinge upward and be held in place by gas piston hold-open devices. The cabinet frame shall be held in the down position by two spring-loaded dead bolt style slide catches. The vertical ends of the speed load framed cabinet will have EPDM rubber foam to protect the handles from damage. Each interior cabinet dimension shall be 30" wide x 8.25" high x 8.5" deep.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Squad Bench Storage:

There shall be storage under the curbside squad bench split lid. The interior storage area shall be approximately 50" wide x 4" high x 22.50" deep.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Recessed Glove Box Storage In Rear Door Cushion Area:

The rear head pad shall include two (2) recessed glove box storage, one each side of the centered rear clock. There shall be a heavy duty top hinged Plexiglas door installed to gain access to the gloves. The face of the Plexiglas shall include oval holes installed.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Recessed Glove Box Storage In Side Door Cushion Area:

The side door head pad shall include storage for three (3) recessed glove boxes. There shall be a heavy duty top hinged Plexiglas door installed to gain access to the gloves. The face of the Plexiglas shall include oval holes installed.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Streetside Ceiling Overhead Grab Rail #1:

There shall be a formed 2" diameter brushed stainless steel overhead assist rail. It shall be located on the ceiling over the patient area. This rail shall be approximately 100" long.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Curbside Ceiling Grab Rail:

There shall be a formed 2" diameter brushed stainless steel overhead assist rail. It shall be located over the squad bench. This rail shall be a minimum of 60" long.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Door Assist Rails:

There shall be "L" shaped formed 2" diameter brushed stainless steel entrance door grab handles installed on the curbside and both rear entry doors. The "L" shall start horizontally under the door window and turn at a 90-degree angle up alongside the hinge side of the window to provide safe entry from the street level and safe exit from the patient floor.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

IV Brackets:

There shall be four (4) Cast Products. Inc. model #IV 2008 recessed rubber, non-swinging type IV hangers that fold flat when not in use mounted in the ceiling over the lower portion of the patient area. All hangers shall be bolted to the roof framing structure.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

IV Clips:

There shall be two (2) IV clips mounted on the interior walls as directed by this agency.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

IV Poles:

There shall be two (2) poles mounted in the as directed by this agency. Exact location shall be determined at time of bid award.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Cabinet Latches:

There shall be stainless steel SouthCo M1 cabinet latches installed on all hinged cabinet doors and cabinet drawers. SouthCo M1 plastic latches are not acceptable.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Cabinet Drawer, Squad Bench:

There shall be an interior slide-out style cabinet drawer installed under the head end of the squad bench. The drawer shall be made from .125" aluminum. The drawer shall include a wood, flush mounted door face. The interior dimensions shall be 10" wide x 10" deep x 7" high. The drawer shall be located at the head end of the squad bench. The drawer shall contain a separate locking key cylinder.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Clock, Rear Header:

There shall be a 6" Trintec/Quartz clock flush mounted on the rear head pad. The clock shall include back lighting. When installed the clock shall be mounted to a color coordinated vinyl wrapped mounting plate. The entire clock and plate shall be installed as one piece. To allow the personnel to change the battery, time or gain access to the clock it shall be installed with two screw-on type quick release fasteners.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Clock, Action Area:

There shall be an Intellitec clock / time manager located in the main action area viewable from any seat position.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Sharps Storage:

There shall be a wall mounted sharps container mounted directly above the foot end of the squad bench, Bound Tree part #298516.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Cabinet Vertical Dividers:

There shall be a total of thirty (30) vertical adjustable Clear Plexiglas dividers installed in various cabinets. Exact locations shall be determined at time of bid award.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Streetside Wall Scuff Protector:

The streetside wall shall contain a brushed stainless steel scuff protector laminated over the Formica. The protector shall run full length of the wall and extend from the bottom of the side CPR seat lid to the top of the roll up flooring.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Curbside Wall Scuff Protector:

The curbside wall shall contain a brushed stainless steel scuff protector laminated over the Formica. The protector shall run full length of the wall and extend from the bottom of the squad bench lids to the top of the roll up flooring.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Curbside Switch Panel Cabinet:

A flat panel cabinet for the second rear control panel shall be installed. The cabinet shall be mounted at the head end of the squad bench below the bandage cabinet.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Curbside Two-Way Radio Panel:

The curbside switch panel cabinet at the head end of the squad bench shall contain a removable panel at the top just under the overhead bandage cabinet to allow a remote head style two-way radio to be recessed into the panel. The access panel shall be integral of the cabinet and removable for service.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Defibrillator Bracket:

The vehicle shall be equipped with one (1) TMS Technologies swivel style defibrillator bracket installed in the main action area of the vehicle near the side CPR seat. Exact location shall be determined by this agency.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

PATIENT COMPARTMENT ENVIRONMENTAL SYSTEMS

Module Fresh Air Intake Vent:

A filtered fresh air intake shall be mounted on the upper right front (passenger side) corner of the modular body. The heater / air conditioner fans shall control the intake of fresh air. A 12 volt powered fresh air intake fan shall be provided. The system shall be wired thru the exhaust vent circuit and switch of which shall draw fresh air in from the exterior. The system shall be a constant flow style with a thermostat to control heating and cooling, therefore providing a fresh environment throughout the patient compartment.

The air return system shall be located within the right front cabinetry. This cabinetry shall include an integral plenum wall and duct system. This system shall allow the blower fans to pull air from the floor, thereby speeding the process of heating/cooling and therefore provide a consistent temperature at all levels of the patient compartment.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Exhaust Fan:

A power exhaust vent fan shall be installed in the rear upper wall below the roofline. The fan shall be controlled from the rear control switch panel. The vent shall be filtered and located on the rear outside body sidewall. The front fresh air intake vent and the rear (power) exhaust vent shall provide efficient cross through patient compartment ventilation. The exhaust fan shall have a minimum of 100 CFM.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Rear Heat / A/C Unit:

A Hoseline 3000 series dual 12 volt / 115 volt combination heater / air conditioner system shall be installed. The unit shall be installed in the center of the module above the pass thru window, at ceiling level.

A Hoseline CM3000 digital thermostat shall be mounted in the main action area to operate the combination unit. An electrically operated vacuum valve shall automatically turn on the flow of hot water to the rear heater whenever the thermostat is adjusted to call for heat, and off whenever the thermostat is adjusted to call for air conditioning. A manual heater shutoff control shall be located in an easily accessible area to provide servicing

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

of the rear heater without draining the entire system.

The fan shall be capable of moving heated or cooled air to the rear patient compartment.

All heater hoses shall be made of EPDM/ nomex as approved by the chassis manufacturer.

Only machine press OEM type connectors will be permitted. The use of hose clamps on air conditioning high-pressure hoses will not be permitted.

Cab and patient compartment heating and air conditioning shall be controlled separately.

The minimum 12 volt system ratings shall be 42,000 BTU heat and 36,000 BTU cool.

The minimum 115 volt system rating shall be 9,180 BTU heat and 13,500 BTU cool.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Heat / AC Unit Location:

A Hoseline 3000 series dual 12 volt / 115 volt combination heater / air conditioner unit shall be located over the pass thru area along the ceiling of the patient compartment.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Ducted Air:

The HVAC shall be ducted down the center ceiling strip. There shall be a minimum of six round adjustable ducts. The ducting shall be tapered to allow full flow of air to the further most vents.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Inline Booster Coolant Pump:

A 12-volt centrifugal liquid pump shall be installed. The pump shall boost the flow capacity of the engine coolant.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Auxiliary A/C Condenser:

The vehicle shall have Hoseline auxiliary heavy-duty air conditioning condensers installed under the exterior D-2 compartment. A heavy duty mud flap shall be installed forward of the unit to prevent road debris from coming in contact with the unit.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Insulation:

There shall be two-inch thick plank non-deteriorating high density "Blue Board" foam insulation placed between all framing. This shall include the module body walls, floor, ceiling, and patient doors. There shall also be a four-millimeter vapor barrier placed in the module walls, ceiling and patient doors. This vapor barrier shall serve as an additional moisture barrier for the changing outside environment.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Undercoating:

The chassis and ambulance module shall be undercoated with automotive grade undercoating. All chassis manufacturer recommendations shall be followed.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

OXYGEN SYSTEM

Flexible oxygen hose from the oxygen compartment to the oxygen outlets shall be certified hose with brass fittings. The entire system shall be subjected to a four hour, 150 PSI leak test and then certified.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Oxygen Minder:

An Amico model number 11525 oxygen minder shall be installed in the main action area on the back wall. The oxygen monitor shall meet KKK-E specifications and include an adjustable silence alarm, an audible alarm with quick touch silence response. It shall also include an adjustable four position alarm setting and a push to test button. The low pressure alarm shall be set at 150 PSI.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Electric Solenoid Oxygen Valve:

One (1) electric oxygen solenoid valve shall be installed in the oxygen compartment. A manual override valve shall also be included. The override shall be controlled from the main action area near the oxygen view window.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Action Area Oxygen Outlets:

There shall be two (2) Ohio style oxygen outlets located on the back wall of the main action area.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Ceiling Mounted Oxygen Outlet:

There shall be one (1) Ohio style oxygen outlet located in the ceiling of the module in the area above the head end of the cot. The outlet shall be recessed into the center heat / AC ducting if possible.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Right Wall Mounted Oxygen Outlet:

There shall be one (1) Ohio style oxygen outlet located on the right interior wall at head of squad bench between the squad bench and the ceiling.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Oxygen Access/Viewing Door:

Access to the oxygen cylinder gauge shall be provided through a hinged 7" x 10" Plexiglas door with a passive latch mechanism. The door shall be located on the inside of the patient compartment opposite the exterior oxygen compartment.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Oxygen Tank Bracket:

Located in the streetside forward compartment (exterior D-1 compartment) shall be a Zico #QR-MV universal oxygen cylinder holder. This device shall accommodate both an "M" (6.75" diameter) and "H" (9" diameter) size cylinder.

The bracket shall be securely bolted to a five-inch aluminum channel which shall be welded to the modular body frame compartment allowing for added strength and safety.

The oxygen cylinder storage cradle installation must meet or exceed AMD Standard 003, Oxygen Tank Retention System.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Oxygen Equipment:

The ambulance shall include the following oxygen components; (1) 50 PSI oxygen regulator, (1) oxygen wrench, and (1) oxygen flow meter.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Portable Oxygen Storage:

The vehicle shall include two (2) Ferno Washington #521 portable oxygen brackets installed as directed by this agency. The storage location shall accommodate "D" size bottles with regulators attached. The brackets shall be mounted in the patient compartment.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

SUCTION SYSTEM

Suction Pump:

A permanent on board suction system shall be installed. The system shall include a quick disconnect outlet mounted on the back wall of the action area and a 12 volt GAST suction pump to be mounted in the power distribution cabinet. The system shall be controlled from the action area switch panel.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Suction Outlet:

An Ohio style suction quick disconnect outlet shall be near the canister unit.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

SSCOR Suction:

A permanent on board suction system shall be installed. The system shall be controlled from the action area switch panel. The suction regulator and adjustment valve shall be a wall mounted SSCOR 22000 brand. The collection bottle shall be a wall mounted disposable Bemis (or equivalent) collection bottle. Both units shall be mounted on the back wall of the main action area between the angled switch panel and the storage cabinet.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

PAINT / DECALS

Paint Process and Warranty:

The ambulance manufacturer shall use Polyurethane Dupont Imron paint.

The paint must have:

- 1) High gloss retention
- 2) Strong UV properties
- 3) Strong Chemical resistance
- 4) Strong Chip resistance
- 5) A 3.5 lbs / gal VOC content or less (green component)
- 6) A proven durability in the commercial industry

Please note, that because of the importance of proper paint preparation and application, any differences in materials, preparations or procedures must be noted and explained in detail. Non-compliance with this requirement will result in immediate rejection of entire bid response.

Prior to assembly, all joints and seams shall be back primed with a self-etching epoxy type primer. All welds shall be ground smooth prior to priming. The entire body shall be sanded and then washed with a silicone remover and degreaser prior to application of the primer. This process significantly aids in proper adhesion of the primer.

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

The following steps must be followed in sequence to properly app paint to the ambulance.

- 1) **SURFACE PREP**
 Clean entire modular body with 39195 Prepsol using the two-doth method
 Wipe with a clean cloth wet with 39195
 While still wet, wipe the body clean with a second dry and clean doth
 D.A. Sand with 180-grit paper
 Sand the body thoroughly until bright
 Hand sand edges thoroughly until bright with 180-grit sandpaper
 Final sand body with 120 or finer grit paper
 Blow off dust from body using air gun
 Clean body with 39395 using the two-cloth method to remove dust and contaminants
 Step I is essential in achieving proper adhesion and corrosion protection
- 2) **PRIMING**
 Tack off the unit
 Spray one double coat or two medium wet coats of 615S self-etching primer.
 1.2 mils DFT is required
 Allow 30 minutes dry time
 Apply three wet coats of I 1405 URO Primer
 Wet film thickness shall be 6 mils
 Allow a minimum of 5 minutes between coats
 Drying time before sanding: overnight air dry or bake for 45 minutes
 at 140 degrees and allow 45 minute cool down
- 3) **SANDING**
 Block sand with 280-grit sandpaper
 Blow off body with air gun
 Clean any sand through areas with 3939S using the two-cloth method
 Reprime sand-through areas with three coats of 615S self-etching primer
 Block sand with 400-grit sandpaper followed by 500-grit sandpaper
 Dry film thickness after sanding shall be a minimum 2.0 mils.
- 4) **PRE TOPCOAT PREPARATION**
 Blow off body with air gun to remove dust
 Wipe with 3939S using two-cloth method
 Seam seal with non-shrinking silicone free seal
 Clean body with 3939S using the two-cloth method
 Final wipe with a third clean clothe to remove any further residue
 (All wipe down shall be done in a downdraft paint booth)
 Tack rag unit
- 5) **TOPCOAT PROCEDURE**
 Mix IMRON polyurethane paint with 193S activator
 Apply two medium wet cross coats to the entire body
 Bake body for 90 minutes at 165 degrees
 Topcoat shall have 2.5 mile DFT
 Total topcoat and primer shall be 5.7 mile DFT

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Base Paint:

The paint used shall be an American brand paint. The paint warranty shall include the paint manufacturers audit procedure and include spot checks by the paint manufacturer.

There shall be a minimum of two separate coats of Dupont IMRON 5000 / 6000 paint. The body shall be painted to match the chassis color. All Dupont, manufacturer recommended procedures shall be followed, and documentation shall be available to certify compliance.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Warranty:

A paint warranty between DuPont, the ambulance manufacturer, and the end user shall be provided. The warranty shall be for a period of three years at 100% and three year additional years prorated at 50% fourth year, 25% fifth year and 10% at sixth year. The warranty shall be honored at any Dupont authorized paint facility with experience with working on aluminum materials. This process will eliminate the vehicle to be returned to the manufacturing facility for any required warranty paint repairs.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Module Body Color:

The entire module body shall be painted White to match the cab chassis color.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Mid Body Paint Stripe:

A single 11" wide RED painted stripe shall be applied to the center / midbody of the entire vehicle, excluding the cab hood. Color shall match existing fleet.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Lower Body Paint Stripe:

A single 11" wide RED painted stripe shall be applied to the lower portion of the module. Color shall match existing fleet.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

3M Reflective Pinstripe:

All Red painted stripes shall include 3M Black reflective ½" wide pinstripe. Included shall be all door jambs.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

3M Reflective Stripe:

There shall be one (1) 4 inch side 3M Scotchlite White reflective, adhesive backed striping tape applied to the vehicle. The striping shall be installed along the bottom of the center / midbody Red stripe. The design shall match current fleet.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

Federal "Star of Life" / "Ambulance" Decal Package:

The ambulance shall be supplied with the required State and Federal "Star of Life" decal package. The package shall include: two (2) 4 inch 'Star of Life' decals, (2) 12 inch "Stars of Life" decals, (2) 18 inch "Stars of Life" decals, three (3) 6 inch "Ambulance" decals, and one (1) 4 inch reverse "Ambulance" decal. All decals shall be installed in conjunction with the lettering to create a uniform appearance.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

"NO SMOKING" / "FASTEN SEAT BELT" Decals:

No smoking and Fasten seat belt decals shall be installed in both the cab and the module.

Bidder Understands And Will Supply Exactly As Written? **YES** **NO**

TOWN OF OAK BLUFFS EMS AMBULANCE BID SPECIFICATIONS

Lettering:

Before delivery the vehicle shall contain 3M reflective lettering with vinyl drop shadow and contrasting vinyl outline. All "Ambulance" and "Star of Life" decals shall be installed when the vehicle is being lettered for a uniform appearance. Lettering size / font and design shall match present fleet.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------

Front End Alignment:

After final completion of the ambulance conversion, the vehicle shall include a front end alignment. Documentation of the front end alignment shall be included within the owner's manual.

<i>Bidder Understands And Will Supply Exactly As Written?</i>	YES	NO
--	------------	-----------