

MILLVILLE VOLUNTEER FIRE COMPANY INC.

WWW.MILLVILLE84.COM

35554 ATLANTIC AVENUE
MILLVILLE, DE 19967

TEL: (302) 539-9535
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Date: June 5, 2024

RE: Requesting Bid Proposal for (2) two NFPA 1917 Ambulance

Sealed proposals for protect: Millville Volunteer Fire Ambulance Proposal will be emailed, sent to, or delivered to:

Finance@millville84.com

Millville Volunteer Fire Company, Inc.

35554 Atlantic Avenue

Millville, Delaware 19967

Proposals with supporting documents must be submitted by **4:00pm (EST)** local time on **July 26, 2024**; in a sealed envelope or emailed marked "Millville Fire Ambulance Proposal". received later than the specified closing date and time will not be accepted.

- Bids Received: **July 26, 2024 @ 4:00pm**
- Bids Open by Committee: **July 29, 2024**
- Committee Review: **July 29, 2024 to August 5, 2024**
- Committee Recommendation to Millville Board of Directors: **August 5, 2024 @ 1900 hours**
- Recommendation to Millville Membership meeting for Bid Award Approval: **August 6, 2024 @ 1900 hours**

Any questions can be directed to EMS Chief John Wilson @ (302)539-9535 or jwilson@millville84.com.

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

**(2) New Medium Duty Custom Ambulance Specifications
Type I Medium Duty Ambulance
Specified By: Millville Volunteer Fire Company. EMS Apparatus Committee**

Originated: 2024

The Millville Volunteer Fire Company reserves the right to modify these specifications at any time during the bidding process.

The Millville Volunteer Fire Company reserves the right to select any bidder low or high.

All specifications are general unless a specific item manufacturer is specified. All substitutions for specific items must be noted in the bid package.

These specifications are the minimum specific items requested by the Millville Volunteer Fire Company. All standard items from your manufacturer should be listed in detail in the bid specifications.

Each bid shall contain the full name of the party or parties bidding and the signature of the parties bidding shall be in their respective handwriting.

Bidders are solely responsible for any expenses they incur in preparing the proposal and subsequent negotiations with the Millville Volunteer Fire Company, Inc. (MVFC), if any. If the MVFC elects to reject any or all proposals, or cancel the request for any proposal at any time, MVFC will not be liable to a bidding company for any claims. This includes, but is not limited to, cost or damages incurred by the bidder in preparing the proposal, loss of anticipated profit in connection with any final Contract, etc.

A bidder who has already submitted a proposal at any time prior to the official closing time by letter bearing signature of a senior official to the designated recipient of the proposal to which the request for withdraw applies. The withdrawn proposal will be returned unopened to the bidder.

A bidder who has already submitted a proposal may submit further proposal at any time up to the official closing time. The last proposal received shall supersede and invalidate all proposals previously submitted by the bidder as it applies to this proposal request.

In the event only one (1) proposal is received at the closing time and it is an acceptable proposal, after review it will be forwarded to the proper channels within our organization.

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Millville Volunteer Fire Company, Inc. would like the following added to the proposal for clarification an added budgeting factor:

- a. Pre- Construction Meeting, Pre-Graphics Inspection and Final Inspection
- b. Service Facility Obligations
- c. Warranties and Test (if required) on the following
 - i. Cab/Chassis / Frame/ Body
 - ii. Engine / Transmission
 - iii. Electronics / Wiring
 - iv. Graphics
 - v. Workmanship
- d. Have (3) three specification drawing included
- e. Maintenance / Specification manuals at time of delivery
- f. Pre-Acceptance and Delivery Training session at Final Inspection and at our Facility.

. “Exceptions”

Exceptions to the specification will be acceptable and outlined on separate sheet with an asterisk * and in **bolded front** within proposal for MVFC to review.

Build / Construction Time

MVFC would like the project to have expected numbers days of construction time after receiving chassis. Please include Build / Construction Timeline

Trade in of Units

Would like a proposal for the trade in of (2) ambulances that will be replaced by these new ambulances. Call for details.

Questions / Clarifications

All questions and clarifications can be addressed through contacting EMS Chief John Wilson by cell phone at (302)358-9452 and/or email at jwilson@millville84.com

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Warranty

A full warranty description shall be provided with the bid package.

NFPA 1917 Compliance

All components of the unit required to be NFPA 1917 compliant shall be listed in the bid package as NFPA compliant. *This is State of Delaware regulation to be compliant.*

KKK-F Compliance

The bid package shall specify KKK-F Compliance of the unit.

Performance and Safety Tests

The specified unit shall be performance and safety tested prior to delivery. All components shall be performance and safety tested prior to delivery to any and all required standards.

Delivery

The specified unit shall be delivered under its own power.

An experienced and qualified dealer representative shall train and familiarize the Apparatus Committee and any other necessary Millville Volunteer Fire Company, Members on the new unit upon delivery. Scheduling of the training will be done by the Millville Volunteer Fire Company, and shall be up to 2 sessions.

Serviceability

All non-chassis warranty items shall be serviced at the Millville Volunteer Fire Company, whenever possible.

A mobile service unit and technician must be available from the dealer.

Approval Drawings

2 sets of engineering drawings, specifically for this unit, shall be provided by the manufacturer and approved by the Millville Volunteer Fire Company prior to construction. The drawings shall show 5 views of the unit (front, rear, both sides, and top). The drawings shall show the overall dimensions of the unit, proposed compartment sizes and features, seating, the locations of all emergency, compartment, interior, and scene lighting, oxygen bottle locations, switches and controls, fixed suction unit, and stretcher mounting equipment. The drawings shall be available both electronically and on paper.

Pre-Construction Trip

A pre-construction trip to the factory for finalization of the unit shall be provided by the bidder. The trip shall be provided for up to 6 members of the Millville Volunteer Fire Company. The dealer shall provide all ground transportation at the location of the manufacturer, lodging, and meals. The Millville Volunteer Fire Company will provide airfare.

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Inspection Trips

2 inspection trips to the factory shall be provided by the bidder. The trips shall be provided for up to 3 members of the Millville Volunteer Fire Company. The dealer shall provide all ground transportation at the location of the manufacturer, lodging, and meals for each trip. The Millville Volunteer Fire Company will provide airfare.

The first trip will be a mid-construction trip to be scheduled in coordination with the factory, dealer, and Millville Volunteer Fire Company. The first trip will be scheduled after the module has been mounted on the chassis and the module interior layout has been installed.

The second trip will be a final inspection trip to be scheduled in coordination with the factory, dealer, and Millville Volunteer Fire Company. The second trip will be scheduled at the completion of the unit before the unit leaves the factory.

Chassis

The chassis requirements shall be as follows:

Chassis- Ford F550 4x4 or Dodge Ram 5500 4x4 Chassis

quote for

Diesel Engine

16,500 GVW Rating

Automatic Transmission

Exhaust Brake

Front wheels painted red

Rear wheels painted red

Mud Flaps

Diamond Plate Running Boards

Power Windows

Power Door Locks

Power OEM Mirrors

Air Conditioning

OEM High-Back Bucket Seats -- Cloth

Tilt Steering Column

Standard AM/FM Stereo

Roof Top Running Lights

All Batteries shall be Gel Batteries

Suspension

Liquid/Gel Rear Axle with dump

Vehicle shall not dump while in gear.

3-way dump enable switches, cab console override with a second control at back door driver's side.

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Custom Cab Console (approved by Fire Department during Pre-Construction)

A custom cab smooth finished console {color chosen by Millville Volunteer Fire Company} shall be provided between the driver and passenger seats. The console shall be mounted in a location not to interfere with driver or passenger controls or air bag restraint systems. The console shall be large enough for the unit switch control panel, siren control, Motorola 800 MHz radio provided by Millville Volunteer Fire Company, and 3-M Opticom traffic signal pre-emption device controls with park off control, (2) 800 MHz portable chargers. Knox Box Key Secure 5 and 800MHz Speaker will be mounted to rear wall behind console. An electrical bus bar type connection shall be provided under the console for the 800 MHz radio. 2 big gulp sized drink holders. 2 Dual USB ports on drivers' side and passenger side.

Custom Lighting Switch Control Panel

The unit shall be equipped with a custom lighting (emergency, scene, body, and compartment) control panel. The panel will be mounted in the custom console at a location to be determined by the Millville Volunteer Fire Company.

Over-head Cab Light

The interior cab shall be equipped with (2) ceiling mounted red/white LED light located on the ceiling in a location determined by the Millville Volunteer Fire Company. These lights will be controlled by switches located in the light unit.

Battery System and Alternator

The chassis shall be equipped with a battery system and alternator capable of starting and maintaining electrical power under high electrical output usage.

Battery Cut-Off Switch

The unit shall be equipped with a battery cut off switch to control power to the module and fire radio components.

Battery Charger

The unit shall be equipped with a Kussmaul auto charge single battery charger to be mounted in a location determined by the Millville Volunteer Fire Company.

Charging Receptacle

The unit shall be equipped with a Kussmaul 110-volt 20-amp battery charge receptacle mounted in a location determined by the Millville Volunteer Fire Company. The receptacle will be an "auto-eject" style and will be red in color with a cover.

Interior Receptables

2 multi units with 6 receptacles. One receptacle to switch over to 120v when plugged in from shore line.

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Cab Emergency Lighting

The cab of the vehicle shall be equipped with the following emergency lights:

(2) Whelen M7 Series LED Lights mounted in the front of the grill. 1 will be red and 1 will be blue with clear lenses.

(2) Whelen M7 Series LED Lights mounted on the fenders over the front wheels, 1 on the left fender and 1 on the right. Both lights will be red with clear lenses.

Fog Lights

The unit shall be equipped with fog lights mounted between the front bumper and the grill area. The fog lights will be switched from inside the cab.

Electronic Siren

The unit shall be equipped with an electronic siren mounted in the center of the front bumper. The siren control box will be mounted in the custom cab console at a location determined by the Millville Volunteer Fire Company.

Ambulance Body

The ambulance body shall be as close to 172” long body with a minimum 72” interior height from floor to ceiling. The ambulance body shall have 2 rear hinge opening doors as tall as possible, and 1 passenger side opening door as tall as possible. The rear doors shall have solid windows with tinted privacy glass. The side door shall have a sliding window for ventilation and shall be tinted privacy glass.

Ambulance Body Exterior Compartments

The ambulance body shall have 6 exterior compartments. The compartments shall be located in locations determined by the Millville Volunteer Fire Company. Each compartment shall have a protective strip of polished aluminum at the bottom of the compartment opening to help prevent scratches. Each compartment shall have diamond plate aluminum on the inside of the compartment door. A “Line X” type material compartment liner shall be provided for each compartment floor and shelf(s). The compartment general locations, sizes, and purposes are as follows: (All dimensions provided are the minimum acceptable sizes or as close to these as possible. If engineering allows for larger sizes without taking away from the interior cabinets, we would like the compartments to be as large as possible.)

Compartment 1

Driver’s Side Forward – Main Oxygen Storage

Height – 94”, Width – 24”, Depth – 23”

1 adjustable shelf shall be provided and installed in the upper area of this compartment above the oxygen cylinder.

1 ZICO Oxygen cylinder lift with remote control shall be provided and installed in this compartment in the forward area of the compartment.

LED Compartment lighting

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Compartment 2

Driver's Side in Front of Rear Wheels – PPE and SCBA Storage double doors

Height – 41", Width – 51", Depth – 23"

1 vertical divider -full height of compartment. 1 horizontal shelf tied into the vertical divider to be adjustable.

1 ZICO Walk-Away model Scott SCBA bracket shall be provided and installed in this compartment against the rear wall.

1 (8) # Flat Head Axe installed in a bracket in this compartment with a (30)" Fire Hooks Unlimited Pro-Bar Halligan Bar married together. The location will be determined by the Millville Volunteer Fire Company.

Mounted Fire Vulcan LED flashlight with charger model # 44451 to be supplied by Millville Volunteer Fire Company.

LED Compartment lighting

Compartment 3

Driver's Side Rear Behind the Rear Wheels as Close to the Rear of the Unit as Possible – PPE and SCBA storage double doors

Height – 39", Width -- 39", Depth -- 21"

1 vertical divider, full height of compartment. 1 horizontal shelf tied into the vertical divider to be adjustable.

1 ZICO Walk-Away model Scott SCBA bracket shall be provided and installed in this compartment at a location determined by the Millville Volunteer Fire Company.

Mounted Fire Vulcan LED flashlight with charger model # 44451 to be located by the Millville Volunteer Fire Company.

Compartment 4

Passenger Side Forward – EMS Portable Response Equipment Storage.

Height – 94", Width – 26", Depth – 31"

This compartment shall be accessible from the interior and exterior of the ambulance module.

3 adjustable shelves shall be provided in the upper areas of the compartment.

(2) 12-volt power supply outlets shall be provided in this compartment. The locations shall be determined by the Millville Volunteer Fire Company.

2- 125V electric outlets shall be provided in this compartment. The locations shall be determined by the Millville Volunteer Fire Company.

LED Compartment lighting

Passenger side entrance way

2 spare size "D" oxygen cylinder holders shall be provided in doorway towards the rear of the unit back side of the regular door.

Compartment 5

Passenger side behind rear wheels EMS cooler and tool box storage

Height - 28", Width – 23, Depth – 23" with slide out bottom tray

LED Compartment lighting

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Compartment 6

Passenger Side Rear Behind the Rear Wheels as Close to the Rear of the Unit as Possible – Backboard and Immobilization Equipment Storage.

Height – 88”, Width – 25”, Depth – 23”

1 fixed divider with a Velcro strap shall be provided and installed in this compartment 11” from the rear wall and 1 adjustable divider 6 feet tall in this area for backboard storage of 2 backboards and 1 scoop stretcher.

3 adjustable shelves shall be provided and installed in this compartment on the 14” side for immobilization equipment storage. Stryker model 6252 Stair Pro stair chair

Ambulance Body Exterior Emergency Lighting

All emergency lighting shall meet all current emergency vehicle standards. All emergency lighting shall be controlled by switches in the custom console in the cab.

Front of Ambulance Body

7 Whelen M7 Series LED lights shall be installed and evenly spaced across the front of the ambulance body. The colors of the lights will be red and white with clear lenses. The locations of the lights will be determined by the Millville Volunteer Fire Company. The center light shall be a State of Delaware compliant 3M model # 492 Opticom emitter.

Ambulance Body Exterior Emergency Lighting

Driver’s Side of Ambulance Body

2 Whelen M9 Series LED lights shall be installed on the driver’s side of the ambulance body. 1 light shall be mounted on the upper portion of the door to compartment # 1 and 1 light shall be mounted in the upper rear corner of the ambulance body above compartment # 4. 1 light shall be red and 1 light shall be white with clear lenses.

Driver’s Side of Ambulance Body Continued

2 Whelen M7 Series LED lights shall be mounted on the driver’s side of the ambulance body. 1 light shall be red with a clear lens and shall be mounted above the rear opening. The second light shall be white with a clear lens and shall be mounted in a location determined by the Millville Volunteer Fire Company.

Rear of Ambulance Body

7 Whelen M9 Series LED lights shall be installed above the rear doors. 1 light shall be centered over the rear door opening and the remaining 6 shall be evenly spaced 3 on each side. 2 lights shall be amber, 2 lights shall be red, 1 light shall be blue, and 2 lights shall be white that shall function as scene lights when the rear doors are open.

2 red flashing LED lights shall be installed 1 on each side of the rear doors. Each light shall also serve as a brake light.

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Passenger Side of Ambulance Body

2 Whelen M9 Series LED lights shall be installed on the passenger side of the ambulance body. 1 light shall be mounted on the upper portion of the door of compartment # 4 and the other light shall be mounted on the upper portion of the door of compartment # 6. 1 light shall be red and 1 light shall be blue. Both lights will have clear lenses.

2 Whelen M7 Series LED lights shall be mounted on the passenger side of the ambulance body. 1 light shall be red with a clear lens and shall be mounted above the rear wheel opening. The second light shall be blue with a clear lens and shall be mounted in a location determined by the Millville Volunteer Fire Company.

Ambulance Body Exterior Scene Lighting

3 Whelen Dual Pioneer LED semi-recessed scene lights shall be installed on the exterior of the ambulance body. 1 scene lights shall be installed on each side located in the upper portion of the body between the Whelen M9 Series emergency lights. The scene lights shall operate automatically when any compartment or entry door is opened on the side of the unit the lights are mounted on. The lights shall also be operable by switches in the custom console in the cab. 1 scene light mounted on the front of the unit center unit below emergency lighting but above cab controlled by individual switch on console.

2 white Whelen M9 Series LED lights on the rear of the unit shall serve as emergency lights when the rear doors are closed and scene lights when the rear doors are open. The lights shall also be operable as scene lights with doors closed when activated by a switch in the custom console in the cab.

Ambulance Body Rear Turn Signal, Stop, Tail, and Back-Up Lights

2 Whelen M6 Series LED directional lights with populated arrows shall be mounted on the rear of the ambulance body. 1 light shall be mounted on the lower area next to each rear door.

4 Whelen M6 Series LED Stop, Tail, and Back-Lights shall be mounted above the rear bumper on the rear of the ambulance body. 2 lights shall be mounted on each side.

Ambulance Body Additional Exterior Lighting

2 - 4 “white LED running board step lights shall be recessed into the front of the ambulance body just above the running boards mounted on the cab. The step lights shall be activated any time the door is opened.

2 – 4” white LED step lights shall be recessed into the rear of the ambulance body just above the rear step.

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

4 amber lower side marker lights shall be mounted on the sides of the ambulance body. 2 lights shall be mounted on each side of the body. The lights shall flash in coordination with the cab and rear directional lights.

6 white under body ground lights shall be mounted under the ambulance body. 3 lights shall be mounted on each side of the ambulance body. The lights shall be activated manually by a switch on the control console.

Standard marker/running lights shall be mounted in the upper areas of the ambulance body around the unit.

Compartment lights shall be an LED rope light on the insides of each compartment door opening. The rope lights shall be sufficient to illuminate all accessible areas of each compartment. The lights shall activate automatically when the compartment is opened. The lights shall be provided by the dealer prior to construction and approved by the Millville Volunteer Fire Company.

Ambulance Body Rear Step

A full-length rear bumper/step shall be installed on the rear of the ambulance body. The center portion of the rear step shall be a folding style and shall fold into a recessed area to create a flush opening from the rear door area down and not interfere with stretcher operations. The rear step shall be constructed of diamond plate materials and shall have 2 rubber bumper 2 ¼" H x 16" W x 2" thick located on each fixed portion of the rear of the step. *Goal of this is to have the stretcher come out of patient compartment without lifting the rear step up if possible.*

Ambulance Body Wheel Trim Molding

Each rear wheel opening on the ambulance body shall have a flexible black rear wheel fenders.

Ambulance Body Rub Rails

Each side of the exterior of the ambulance shall have a black rubber material rub rail from the front of the ambulance body to the rear wheel opening and from the rear wheel opening to the rear of the ambulance body. The rub rail shall be located at the bottom of each side wall.

Ambulance Body Exterior Rear Door Holders

The exterior of each rear door and the exterior rear wall shall have rear door holders that shall hold the rear doors of the ambulance body in the open position.

Ambulance Body Drip Molding

Each compartment or door opening on the exterior of the ambulance body shall have a drip molding above the opening.

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Ambulance Body Interior

The interior of the ambulance body shall be constructed with all deluxe or high-quality materials. Wood shall be avoided in construction whenever possible. All interior walls shall be finished with a smooth gray material that is easy to clean. All upper areas shall be padded for head bumpers and all interior compartment edges shall be padded. All padding shall match interior seat color. The interior layout shall be as follows:

Interior Front Wall

The interior front wall shall have a small opening area into the cab. The interior front wall shall have openings into compartment # 4. The openings will have a center slide to close off back.

Interior Ceiling

The interior ceiling shall be equipped with an HVAC ducted raceway down the center from front to back of the unit. 2 - 6' painted anti-microbial grab rails shall be centered over the stretcher area and shall run parallel to the HVAC raceway. 3 rubber fold down IV bag holders shall be recessed into the ceiling 1 on each side of the aluminum grab rails and 1 position in the feet area of the patient. 8 – 8" Whelen model 80C0EHCR LED dome lights shall be recessed into the ceiling 4 on each side of the aluminum grab rails. The LED dome lights shall be operable from the main control panel in the custom cab console, the main control panel on the driver's side interior wall, and the main control panel on the passenger side wall.

3 LED lights shall be installed on the HVAC raceway in the center of the ceiling. The LED lights shall be centered over the stretcher area. The LED lights shall be operable from the main control panel on the driver's side interior wall, the main control panel on the passenger side interior wall, from a switch located just inside the passenger side entrance door, and from a switch located just inside the rear doors on the passenger side interior.

Interior Floor

The interior floor finish shall be a grey non-slip surface and shall be continuous throughout the interior of the ambulance body. The red non-slip surface material shall roll up the side to seats, 6". The interior floor shall be equipped to hold the new style auto lift Stryker model # 6390 easy load. The interior floor shall include stretcher mounts for a Stryker model # 6506 Power Pro XT stretcher that will be mounted in a center location of the floor area for even walkways on both sides of the stretcher. A grey EVS attendant seat with an intergraded child seat shall be installed at the head of the stretcher. The seat shall have heavy duty mounting and shall be capable of sliding left, right, forward, and backward.

Note: Looking at option to deal with Stryker Representative about purchase of Power Load to drop ship to vendors location.

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Interior Rear Wall

The interior rear wall shall be equipped with padded head bumpers above the rear door openings. The inside of the doors shall be equipped with painted anti-microbial grab handles to assist with entry and exit of the unit. The lower half of the inside of the doors shall be equipped with polished aluminum skid plates to protect the interior surface of the doors.

Interior Driver's Side Wall

The driver's side interior wall shall be equipped with 2 red EVS model 1787 5 Point Harness seats. The seating shall be located between the front and rear cabinetry over the rear wheels 48" long. There shall be head bumpers above the seats and no compartments. The forward area of the driver's side interior wall shall have a 52" long x 15" deep counter top area constructed of a smooth gray Corian type material. The counter top surface shall be located over exterior compartment # 2 and shall have padded edges. A main lighting/HVAC control panel shall be located on the side wall above the countertop area. The control panel shall be capable of controlling all interior lighting, HVAC, the mounted suction unit, inverter, exhaust fan, and related items. An access door shall be installed into exterior compartment # 1 to open and close oxygen cylinders. The location of the access door shall be determined by the Millville Volunteer Fire Company.

A fixed electric suction unit shall be mounted on the forward side area of the driver's side interior wall next to the EMT seat. The suction unit shall be controlled from the main control panel next to suction unit on the driver's side interior wall. A LED light shall be mounted under the compartment above the countertop. The LED light shall be operated from a switch on the driver's side main control panel. 1 oxygen port shall be installed on the wall above the countertop. 1 – 12-volt power outlet, double USB outlet shall be installed on the wall above the countertop. 1 – 110-volt GFCI receptacle shall be installed on the wall above the countertop. The 110-volt receptacle shall be operable when the inverter switch is activated and when exterior power is applied. A compartment shall be installed above the countertop area with the following dimensions: 52" wide x 22" high x 10" deep. The area of the compartment closest to the driver's side seating area shall be angled towards the front of the ambulance to avoid a sharp corner at the head level of an attendant riding in the forward driver's side seat. The compartment shall have sliding access doors that shall be constructed of a clear acrylic material and shall have clips to tie the doors closed with breakaway wire ties. The compartment shall have 1 adjustable shelf.

The rear portion on the driver's side between the bench seat and rear compartment there will be aluminum roll up door. Door inside opening 45" H x 22" W 12" D with 3 adjustable shelves.

The rear portion of the driver's side interior wall shall have an interior compartment over exterior compartment # 3. The compartment shall be the following dimensions: 21" wide x 43" high x 21" deep. The compartment shall have 2 adjustable shelves, be padded on all

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

edges, and have swinging hinged access doors constructed of a clear acrylic material with clips to tie the doors closed with breakaway wire ties.

Passenger Side Interior Wall

The inside of the passenger side entrance door shall be equipped with an painted anti-microbial grab handle/rail to assist with entering the doorway. The lower half of the passenger side entrance door shall be equipped with a polished aluminum skid plate. The passenger side entrance door shall be equipped with an LED warning light on the door to flash when the door is open. The step area inside the doorway shall be equipped with a step light for each step that shall activate when the passenger side entrance door is opened. A switch to control the ceiling LED lights shall be located just inside the passenger side entrance door towards the rear of the unit. The switch shall be at a location that can be reached from an attendant standing on the ground outside of the unit. The passenger side interior wall shall be equipped with 2 red EVS model 1787 5point harness. The seats shall be mounted in the bench area 54" long. 2 Additional restraint straps shall be provided and installed to restrain a second patient transported on the bench area.

The area above the countertop shall be equipped with an oxygen outlet, a 12-volt power outlet, a 110-volt GFCI inverter-controlled receptacle, and a main lighting control panel that shall control the interior LED lights, the fluorescent lights, HVAC controls, and exhaust fan. An interior compartment shall be located at the ceiling level of the passenger side interior wall. The compartment shall be the following dimensions:60" L X 10"H X 11.5" D clear acrylic hinge up compartment door with struts to keep the compartment door open. The forward and rear sides of the compartment shall be angled to avoid sharp edges and all edges shall be padded. Rear compartment towards the rear of the unit will be 22" wide x 45" high x 12" deep. The compartment shall be equipped with a roll up door. A seat-belt style faster shall be installed on the top of the counter top to secure the ALS monitor to the counter top.

A switch shall be installed in the rear area of the passenger side interior wall just inside the rear entry doors for operation of the overhead LED lights. The switch shall be located on the rear door passenger side.

AC / Heat

This unit will have a 2-stage independent AC / Heat unit. This unit will be installed on the front of the unit. This unit will have easy access for maintenance.

Inverter

The ambulance shall be equipped with an on-board inverter for 110-volt AC/DC power to the receptacles in the interior of the ambulance body. The location of the inverter shall be determined by the Millville Volunteer Fire Company. The inverter shall be controlled by 2 switches located in the interior of the ambulance body.

Exhaust Vent Fan

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A power exhaust vent with fan shall be provided and installed in a location determined by the Millville Volunteer Fire Company.

Fire Extinguisher

A 5 # ABC dry chemical fire extinguisher with mounting bracket shall be provided and mounted in a location determined by the Millville Volunteer Fire Company.

Power Door Locks – Ambulance Body

All compartment and entrance doors shall be equipped with key and power door locks. A door lock release switch shall be provided on the exterior of the unit at a location to be determined by the Millville Volunteer Fire Company. The power locks shall work in coordination with the cab power door locks.

Latex Glove Box Holders

1 latex glove box holders shall be provided and installed in locations determined by the Millville Volunteer Fire Company. The holders shall be large enough to hold 4 boxes of gloves.

Double Insulation Noise Barrier

The ambulance body shall be equipped with a double insulation noise barrier to assist with road noise during transports.

LED Clock

Above the rear doors a LED clock 7” L X 5”H

Paint and Finish

The cab and body shall be painted and finish coated with appropriate automotive paint to the double (red / white) color choice provided by the Millville Volunteer Fire Company. The unit will be clear-coat finished.

Graphics, Simulated Gold Leaf Lettering, and Striping

The EMS shall be equipped with the following graphics, simulated gold leaf lettering and striping:

- (White) reflective stripes, to run the entire body length and front and rear
- The EMS shall be lettered in simulated gold leaf to the locations determined by the Millville Volunteer Fire Company., the lettering shall be 3” and up to 80 letters.
- 2 Millville Volunteer Fire Company door seals
- The rear of the unit will have 3M reflective strips (DOT pattern) Red/White
- Unit # placed on roof

Exterior Compartment Paint Finish

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All non-protected exterior compartment surfaces shall be painted a gray color approved by the Millville Volunteer Fire Company.

Options

The following items shall be bid as separate price as options only. The Millville Volunteer Fire Company. Apparatus Committee shall decide if the options will be included.

- Back-Up Camera with In-Dash Cab Monitor (Keep with in vehicle dash console)
- In-Dash Navigational System
- Patient Area Camera with In-Dash Cab Monitor with intercom
- Chrome Brush Bar on front of chassis
- Federal Q2B Siren with floor controls on Driver and Passenger sides
- Power Call Siren
- Air Horns with floor controls on Driver and Passenger sides
- Switch Controlled Privacy Glass on Side and Rear Entry Doors
- Alcoa Aluminum Wheels with Chrome Caps and Lug Nut Covers
- Highly polished aluminum wheel trim molding.
- Power Cab Seats on both sides
- Door Handles mounted at top of doors on both the back doors and side entry

Bidder Comply Sheet

The bidder shall check 1 line for each item listed. Yes, means the bidder fully complies with the specifications of the Millville Volunteer Fire Company. No means the bidder does not comply and does not have a substitution. Exception means the bidder has a substitution that is comparable to what is described in the specifications. All exceptions shall be described in detail and attached to this sheet at the time the bid is submitted to the Millville Volunteer Fire Company.

<u>Item</u>	<u>Comply</u>		<u>Exception</u>
	<u>Yes</u>	<u>No</u>	
Warranty	_____	_____	_____
NFPA 1917 Compliance 2019	_____	_____	_____
KKK-F Compliance	_____	_____	_____
Performance and Safety Tests	_____	_____	_____
Delivery	_____	_____	_____
Serviceability	_____	_____	_____
Approval Drawings	_____	_____	_____
Pre-Construction Trip	_____	_____	_____
Inspection Trips	_____	_____	_____

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Chassis	_____	_____	_____
Custom Cab Console	_____	_____	_____
Custom Lighting Control Switch Panel	_____	_____	_____
Map Light	_____	_____	_____
Battery System and Alternator	_____	_____	_____
Battery Cut-Off Switch	_____	_____	_____
Battery Charger	_____	_____	_____
Charging Receptacle	_____	_____	_____
Cab Emergency Lighting	_____	_____	_____
Fog Lights	_____	_____	_____
Electronic Siren	_____	_____	_____
Ambulance Body	_____	_____	_____
Ambulance Body Exterior Compartments	_____	_____	_____
Ambulance Body Ext. Emergency Lighting	_____	_____	_____
Ambulance Body Exterior Scene Lighting	_____	_____	_____
Ambulance Body Rear Turn Signal, Stop, Tail, and Back-Up Lights	_____	_____	_____
Ambulance Body Additional Ext. Lighting	_____	_____	_____
Ambulance Body Rear Step	_____	_____	_____
Ambulance Body Wheel Trim Molding	_____	_____	_____
Ambulance Body Rub Rails	_____	_____	_____
Ambulance Body Ext. Rear Door Holders	_____	_____	_____

Comply

<u>Item</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
Ambulance Body Drip Molding	_____	_____	_____
Ambulance Body Interior	_____	_____	_____
2 stage AC / Heat	_____	_____	_____
Inverter	_____	_____	_____
Hand Lights	_____	_____	_____
Exhaust Vent	_____	_____	_____
Fire Extinguisher	_____	_____	_____
Power Door Locks – Ambulance Body	_____	_____	_____
Latex Glove Box Holders	_____	_____	_____
Double Insulation Noise Barrier	_____	_____	_____
Paint and Finish	_____	_____	_____
Exterior Compartment Paint Finish	_____	_____	_____
Options	_____	_____	_____

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

Service will be a major factor in the award of this proposal. Convenience and experience will be determining factors in defining acceptable service. A service facility within a radius as described below will be required. Personnel performing the service shall be trained by the manufacturer with emphasis in the area of electrical service. In order to evaluate the proposed service facility, the following information shall be provided on the appropriate lines. Radius from purchaser: Not more than (100) hundred miles.

Facility name: _____
Address: _____
City: _____ State: _____
Contact: _____
Phone #: 1- (____)-____ - _____
Training Description: _____

The service facility shall maintain a body shop repair center with an environmentally protected paint spray booth and custom frame machine to handle repairs of the type proposed. Collision repairs shall not be subcontracted to third party vendors.

CRASHWORTHINESS

Safety is a primary objective for modular ambulance vehicles produced under this specification. In addition to compliance with design criteria incorporated herein, manufacturer shall also provide certified documentation to provide proof of crashworthiness of vehicle(s) proposed.

Crashworthiness of vehicle shall be demonstrated through a minimum of two actual crash tests of modular body ambulance under laboratory conditions. These crash tests will be similar in scope to testing performed by the National Highway Traffic Safety Administration and the Insurance Institute for Automobile Safety to verify the crashworthiness of passenger vehicles. An independent test laboratory accepted and utilized by the National Highway Traffic Safety Administration for their crash tests shall perform this testing and provide certification. Testing shall be performed and verified by SAE Member Engineers.

(2) NEW MEDIUM DUTY CUSTOM AMBULANCE SPECIFICATIONS

These test results shall be included with all bids.

Reports from crash testing shall be certified by testing lab, and shall include the following minimum results:

- 1) The required five-point medic restraint system shall hold all attendants in their seats. There shall be no head contact with anything except head rests. There shall be no excessive excursion of the attendants in their seats regardless of which way they were facing.
- 2) The ambulance body structure shall remain intact after both impacts. Bending of body shall be localized to point of impact, and doors adjacent to the actual crash point shall continue to operate. There shall be no intrusion into the patient compartment.
- 3) The body mount and pucks shall remain intact as a result of the impacts. There shall be no visual damage to body mounts or floor structure.
- 4) All interior cabinetry and fixtures shall remain in place and undamaged.

This provision requires actual crash testing of an ambulance by high-speed moving vehicles to validate safety and crashworthiness. Crash simulations, acceleration testing, sled testing; barrier testing or other theoretical tests are not sufficient to meet this requirement. Certified documentation from a qualified independent testing laboratory shall be provided with the bid in order to validate compliance with this requirement.

PICKUP AND DELIVERY SERVICE IS REQUIRED.

Due to the complexity of the design of the vehicle, proposals will be accepted only from manufacturers that utilize well-defined engineering techniques. Computer Aided Design (CAD) drawings of both the interior of the patient area and the overall layout of the module body will be mandatory. At a minimum, these drawings shall include all exterior elevations, all interior views (4), and a plan view of the roof/ceiling.

All options and elements required within these specifications shall be depicted on the prints. The purpose of this requirement is to assure this purchaser that vehicle proposals indeed meet the stated requirements as set forth in these specifications. Generic CAD drawings are not acceptable. The drawings, as submitted, shall accurately depict the exact vehicle that is being proposed. Bidders not including the required drawings will be considered non-responsive and will, therefore, be rejected.

Are the required drawings included with this bid? Yes _____ No _____

The following chassis specification defines a performance and quality standard requested by this bidding authority. Alternate EQUAL provisions may be submitted. If a bidder is offering an alternative to the written section, then an exception must be taken for the section. The exception must be accompanied by data supported by a registered engineer to demonstrate the equivalency of the alternate item. The bidder shall note that the data submitted must correspond to the substitution offered.