



# RAYMOND FIRE

## Town of Raymond, Maine

### AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

	RFD32	
Intent of Specifications	Yes	No
<p>It shall be the intent of these specifications to cover the furnishing and delivery of a complete ambulance equipped as hereinafter specified. These specifications cover only the general requirements as to the type of construction and test to which the ambulance shall conform, together with certain details as to finish, equipment, and appliances with which the successful bidder shall conform. Minor details of construction and materials, which are not otherwise specified, are left to the discretion of the contractor, who shall be solely responsible for the design and construction of all features. The ambulance proposed by the bidder shall meet the applicable requirements of the Ambulance Design Criteria of the National Highway Traffic Safety Administration, United States Department of Transportation Washington DC. This specification is based on current KKK-A-1822-F revision and NFPA 1917, 2016 edition as stated in the current edition at the time of contract execution. Loose equipment shall be provided only as stated in the following pages.</p> <p>Bids shall only be considered from companies that have an established reputation in the field of ambulance construction and have been in business for a minimum of 20 years. Further, bidder shall maintain dedicated service facilities for the repair and service of products. Evidence of such a facility shall be included in bidder proposal.</p> <p>Each bidder shall furnish satisfactory evidence of their ability to construct the ambulance specified and shall state the location of the factory where the ambulance is to be built. The bidder shall also show that the company is able to render prompt service and to furnish replacement parts for said ambulance.</p> <p>Each bid shall be accompanied by a set of "Contractor's Specifications" consisting of a detailed description of the ambulance and equipment proposed and to which the ambulance furnished under contract shall conform. These specifications shall indicate size, type, model and make of all component parts and equipment.</p>		

	Bidder Complies	
Intent of Specifications	Yes	No
<p>The design of the ambulance shall embody the latest approved automotive engineering practices. The workmanship shall be of the highest quality in its respective field. Special consideration shall be given to the following points:</p> <p>A. Accessibility of the various units which require periodic maintenance, ease of operation and symmetrical proportions.</p> <p>B. Construction shall be rugged and ample safety factors shall be provided to carry the loads specified and to meet both on and off-road requirements and speed conditions as set forth under "Performance Tests and Requirements".</p> <p>C. Welding shall not be employed in the assembly of the ambulance in a manner that shall prevent the ready removal of any component part for service or repair.</p> <p>D. All steel welding shall follow American Welding Society D1.1-96 recommendations for structural steel welding.</p>		

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<p>E. All aluminum welding shall follow American Welding Society and ANSI D1.2-96 requirements for structural welding of aluminum.</p> <p>F. Flux core arc welding to use alloy rods, type 7000, American Welding Society standards A5.20-E70T1.</p> <p>The manufacturer shall be required to have an American Welding Society certified welding inspector in plant during working hours to monitor weld quality</p>		
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		<b>Bidder Complies</b>	
<b>Delivery</b>		<b>Yes</b>	<b>No</b>
<p>To ensure proper break-in of all components while still under warranty, the ambulance <b>shall be delivered under its own power</b> (rail or truck freight shall not be acceptable). A qualified delivery engineer representing the contractor shall deliver the ambulance and remain for a sufficient length of time to instruct personnel in the proper operation, care and maintenance of the equipment delivered.</p>			

		<b>Bidder Complies</b>	
<b>INFORMATION REQUIRED</b>		<b>Yes</b>	<b>No</b>
<p>The manufacturer shall supply at time of delivery two (2) complete operation and maintenance manuals covering the completed ambulance as delivered. A permanent plate shall be mounted in the driver's compartment which specifies the quantity and type of fluids required including engine oil, engine coolant, transmission, and drive axle.</p>			

		<b>Bidder Complies</b>	
<b>SAFETY VIDEO</b>		<b>Yes</b>	<b>No</b>
<p>Documentation provided at the time of delivery should also include an ambulance safety video in DVD format. This video shall address key safety considerations for personnel to follow when they are driving, operating, and maintaining the ambulance. Safety procedures for the following shall be included: vehicle pre-trip inspection, chassis operation, and maintenance.</p>			

		<b>Bidder Complies</b>	
<b>PERFORMANCE TESTS AND REQUIREMENTS</b>		<b>Yes</b>	<b>No</b>
<p>A road test shall be conducted with the ambulance fully loaded and a continuous run of ten (10) miles or more shall be made under all driving conditions, during which time the ambulance shall show no loss of power or overheating. The transmission drive shaft or shafts, and rear axles shall run quietly and be free from abnormal vibration or noise throughout the operating range of the ambulance. The vehicle shall adhere to the following parameters:</p>			

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<p>A. The ambulance, when fully equipped and loaded, shall have not less than 25% or more than 50% of the weight on the front axle, and not less than 50% or more than 75% on the rear axle.</p> <p>B. The ambulance shall be capable of accelerating to 35 mph from a standing start within 25 seconds on a level concrete highway without exceeding the maximum governed rpm of the engine.</p> <p>C. The service brakes shall be capable of stopping a fully loaded vehicle within 35 feet at 20 mph on a level concrete highway. The air brake system shall conform to Federal Motor Vehicle Safety Standards (FMVSS) 121.</p> <p>The fully loaded ambulance shall be capable of obtaining a speed of 50 mph on a level concrete highway with the engine not exceeding its governed rpm (full load).</p>		
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		<b>Bidder Complies</b>	
<b>FAILURE TO MEET TEST</b>		<b>Yes</b>	<b>No</b>
<p>In the event the ambulance fails to meet the test requirements of these specifications on the first trial. A second trial may be made at the discretion of the bidder within 30 days of the date of the first trial. Such trials shall be final and conclusive and failure to comply with these requirements shall be cause for rejection. Failure to comply with changes to conform to any clause of the specifications, within 30 days after notice is given to the bidder of such changes, shall also be cause for rejection of the ambulance. Permission to keep or store the ambulance in any building owned or occupied by the purchaser or its use by the purchaser during the above-specified period with the permission of the bidder shall not constitute acceptance.</p>			

		<b>Bidder Complies</b>	
<b>LIABILITY</b>		<b>Yes</b>	<b>No</b>
<p>The successful bidder shall defend all suits and assume all liability for the use of any patented process including any device or article forming a part of the ambulance or any appliance furnished under the contract. The fully loaded ambulance shall be capable of obtaining a speed of 50 mph on a level concrete highway with the engine not exceeding its governed rpm (full load).</p>			

		<b>Bidder Complies</b>	
<b>SPECIFICATION BID REQUIREMENTS</b>		<b>Yes</b>	<b>No</b>
<p>Bidders shall also indicate in the "yes/no" column if their bid complies <b>with each item specified</b>. Exceptions shall be allowed if they are equal to or superior to that specified and provided, they are listed and fully explained on a separate page. A number in the "yes/no" column represents an exception and must correspond to the number on the exceptions page.</p> <p><b>Proposals taking total exception to specifications shall not be acceptable.</b></p>			

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<p>Also, bidders shall submit a detailed proposal. A letter only, even though written on a company letterhead, shall not be sufficient. Bid proposals shall be submitted in the same sequence as specifications for ease of evaluation, comparison and checking of compliance. <b>An exception to these requirements shall not be tolerated.</b></p>		
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	<b>Bidder Complies</b>	
<b>EXCEPTIONS</b>	<b>Yes</b>	<b>No</b>
<p>All exceptions shall be stated no matter how seemingly minor. Any exceptions not taken shall be assumed by the purchaser to be included in the proposal, regardless of the cost to the bidder.</p>		

	<b>Bidder Complies</b>	
<b>GENERAL CONSTRUCTION</b>	<b>Yes</b>	<b>No</b>
<p>The ambulance shall be designed with due consideration to the distribution of the load between the front and rear axles. In addition, the chassis will comply with paragraphs 3.4.1 through 3.6.14 of Federal Specification KKK-A-1822-F and NFPA 1917.</p>		

	<b>Bidder Complies</b>							
<b>COMMERICAL GENERAL LIABILITY INSURANCE</b>	<b>Yes</b>	<b>No</b>						
<p>The successful bidder shall, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding: 5px;">Products/Completed Operations Aggregate</td> <td style="padding: 5px; text-align: right;">\$2,000,000.00</td> </tr> <tr> <td style="padding: 5px;">Personal and Advertising</td> <td style="padding: 5px; text-align: right;">\$1,000,000.00</td> </tr> <tr> <td style="padding: 5px;">Each Occurrence</td> <td style="padding: 5px; text-align: right;">\$1,000,000.00</td> </tr> </table> <p>Coverage shall be written on a Commercial General Liability form. The policy shall be written on an occurrence form and shall include Contractual Liability coverage subject to the terms and conditions of the policy. The policy shall include the owner as an additional insured as their interest may appear.</p>	Products/Completed Operations Aggregate	\$2,000,000.00	Personal and Advertising	\$1,000,000.00	Each Occurrence	\$1,000,000.00		
Products/Completed Operations Aggregate	\$2,000,000.00							
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	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>COMMERCIAL AUTOMOBILE INSURANCE</b>		
The successful bidder shall, during the performance of the contract keep in force at least the following minimum limits of commercial automobile insurance:		
Each Accident: <span style="float: right;">\$1,000,000</span>		
Coverage shall be written on a Commercial Automobile form.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>UMBRELLA/EXCESS LIABILITY INSURANCE</b>		
The successful bidder shall, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:		
Aggregate: <span style="float: right;">\$25,000,000</span>		
Each Occurrence: <span style="float: right;">\$25,000,000</span>		
The umbrella policy shall be written on an occurrence basis and at a minimum provide excess to the Bidder's General Liability, Automobile Liability and Employer's Liability policies. The owner shall be included as an additional insured on the General Liability policy as their interest may appear.		
The required limits can be provided by one or more policies provided all other insurance requirements are met.		
Coverage shall be provided by a carrier(s) rated A- or better by A.M. Bests.		
The bidder agrees to furnish the owner with a current Certificate of Insurance with the coverage listed above along with its bid. The certificate shall be made out to the purchaser. The Certificate of Insurance shall endeavor to provide that the owner be given 30 days advance notice of cancellation or non-renewal change in coverage.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>ISO COMPLIANCE</b>		
The manufacturer shall operate a Quality Management System under the requirements of ISO 9001. These standards, sponsored by the "International Organization for Standardization (ISO)", specify the quality systems that shall be established by the manufacturer for design, manufacture, installation, and service. A copy of the certificate of compliance shall be included with the bid.		

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	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>FEDERAL MOTOR VEHICLE SAFETY STANDARDS (FMVSS)</b>		
The emergency medical care vehicle, chassis ambulance body, equipment, devices, medical accessories, and electronic equipment to be delivered under this contract shall be standard commercial products, tested and certified, to meet this specification. The vehicle shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and United States regulations applicable or specified for the year of manufacture. The primary manufacturer shall procure the chassis, components, equipment, and accessories as specified and be the current technical data and materials of all suppliers.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>INSPECTION TRIP(S)</b>		
The bidder shall provide two (2) factory inspection trips for up to three (3) members of the Raymond Fire Rescue Department. The inspection trips shall be scheduled at times mutually agreed upon between the manufacturer's representative and the customer. All costs such as travel, lodging and meals shall be the responsibility of the bidder.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>SERVICE CENTER</b>		
The bidder shall maintain a factory authorized service center within 250 miles of the Raymond Fire Rescue Department. The service center shall have the following minimum qualifications: <ol style="list-style-type: none"> <li>1. Minimum 10 years of continuous ownership and management</li> <li>2. Total in-house body shop capability</li> <li>3. Minimum 40 foot down draft paint booth with environmental approval</li> <li>4. Automotive electricians trained by the ambulance factory.</li> <li>5. Lap top shop computer with current multiplex analytical software and modem for direct truck to factory communication</li> <li>6. Full time body repair and automotive paint staff</li> <li>7. Certified Master ASE and EVT Technicians</li> <li>8. Computerized parts listing</li> <li>9. 24 Hour Road service vehicle</li> <li>10. VIS® Check Diagnostic analyzer for driver line inspections.</li> </ol>		

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<b>CONTRACT</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p><b>The contract for the specified ambulance shall be directly with the Town of Raymond and the manufacturer. Contracts with dealers or representatives of the manufacturer will not be executed.</b></p> <p>All components shall be new and unused (apart from use incidental to the construction, testing, transport, and delivery of the ambulance). Any old or used components shall constitute grounds for automatic rejection of the entire ambulance.</p> <p>Bidders must identify by manufacturer and model number, purchased components utilized in the ambulance proposed in the bid submission. To make valid comparisons between bids, components must be accurately identified. Therefore, any bid or technical proposal which does not so identify the components being offered will not be considered.</p>		

<b>TRAINING</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>A qualified training engineer shall be provided by the bidder. The training engineer shall instruct <b>Raymond Fire Rescue</b> personnel in the operation and maintenance of the chassis and the systems operational for a period of not less than two (2) days. The training shall incorporate modern training techniques. An "as built" Power Point® presentation shall be included as part of the instruction. A copy shall be left with the Raymond Fire Rescue Department to use for future instruction.</p>		

<b>APPROVAL DRAWING</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>A drawing of the proposed ambulance shall be provided for approval before construction begins. The sales representative shall also have a copy of the same drawing. The finalized and approved drawing shall become part of the contract documents. This drawing shall indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc.</p> <p>A "revised" approval drawing of the ambulance shall be prepared and submitted by the manufacturer to the purchaser showing any changes made to the approval drawing.</p>		

<b>WARRANTY</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>The new ambulance shall be warranted to be free from defects in materials or workmanship under normal use and service. Each manufacturer shall supply, as a part of their bid package, a copy of the warranty or warranties that they propose to provide. In no case should the warranty be less than one (1) year on the entire ambulance.</p>		

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<p>All other warranties, as outlined in these specifications, shall be provided in writing as a part of the bid package. Failure to provide the warranties as outlined throughout these specifications shall be cause for rejection of the bid package.</p> <p>A "revised" approval drawing of the ambulance shall be prepared and submitted by the manufacturer to the purchaser showing any changes made to the approval drawing.</p>		
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	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>BID BOND</b>		
<p>All bidders shall provide, for security, a 15% bid bond. This bid bond shall accompany their bid and be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond shall be issued by an authorized representative of the Surety Company and shall be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond shall include language which assures that the bidder/principal shall give a bond or bonds, as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract.</p> <p>The bidder's bonded warranty shall extend to the chassis and body, regardless of the manufacturer.</p> <p>Proposals received from bidders who do not manufacture the chassis shall provide a warranty which shall be issued jointly and severally by, and signed by, both the bidder and the chassis manufacturer.</p> <p>If the successful bidder does not manufacture the chassis, the bidder shall supply a separate warranty bond, in addition to their performance bond, along with their signed contract. This warranty bond shall guarantee all terms and conditions of the warranty and names both the bidder and chassis manufacturer as co-principals. This warranty bond shall be issued for the contract amount and shall remain in force for a term which is consistent with the term of the warranty quoted in the bid.</p>		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>WHEELBASE</b>		
<p>The wheelbase of the vehicle shall be no greater than 193".</p>		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>GVW RATING</b>		
<p>The gross vehicle weight rating shall be 18,000 lb.</p>		



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	<b>Bidder Complies</b>	
<b>FRAME RAIL WARRANTY</b>	<b>Yes</b>	<b>No</b>
The frame rails shall be guaranteed for the <b>life of the vehicle</b> , which is estimated to be 50 years, against defects in design, material, or workmanship, excluding accident or abuse. A copy of the ambulance manufacturer's warranty shall be included with the bid.		

	<b>Bidder Complies</b>	
<b>ENGINE WARRANTY</b>	<b>Yes</b>	<b>No</b>
The engine shall come with a <b>five (5) year or 100,000-mile</b> warranty.		

	<b>Bidder Complies</b>	
<b>ENGINE INSTALLATION CERTIFICATION</b>	<b>Yes</b>	<b>No</b>
The ambulance manufacturer shall provide, at the time of delivery, a letter from the engine manufacturer stating that they approve of the engine installation in the bidder's chassis. The approval of the engine installation shall be at full horsepower rating in a continuous duty application under all operating conditions. No type of automatic horsepower reduction feature shall be allowed. There shall be no exception to any portion of the engine installation certification. Nonconformance shall lead to immediate rejection of bid.		

	<b>Bidder Complies</b>	
<b>COMPLETED VEHICLE DIMENSIONAL PARAMETERS</b>	<b>Yes</b>	<b>No</b>
Wheelbase = 193" Width, Exterior (excluding mirrors) = 98" Height, Rear-loading = 33" Height, Ground-step = 18" Length, Patient Compartment Interior = 169" minimum Aisle Space with Cot Installed = 12"		

	<b>Bidder Complies</b>	
<b>CURB WEIGHT</b>	<b>Yes</b>	<b>No</b>
The curb weight is the total weight of the complete ambulance and is defined as the chassis, cab, body, and minimum required equipment as specified in KKK-A-1822-F, and includes a full complement of fuel, lubricants, and coolant. The curb weight shall meet Federal Requirements.		

	<b>Bidder Complies</b>	
<b>PAYLOAD ALLOWANCE</b>	<b>Yes</b>	<b>No</b>
A minimum of 1,750 pounds will be allowed over and above the curb weight for personnel, patient and miscellaneous support equipment.		

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	<b>Bidder Complies</b>	
<b>INTERIOR HEADROOM</b>	<b>Yes</b>	<b>No</b>
74" of interior headroom shall be provided inside the patient area of the body. It shall be free of obstructions for the occupants' safety and shall meet or exceed all transportation and regulatory requirements.		

	<b>Bidder Complies</b>	
<b>TECHINCAL REQUIREMENTS CAB/CHASSIS</b>	<b>Yes</b>	<b>No</b>
The ambulance shall be a Type I and shall have a chassis furnished with a two-door pickup truck. The cab/chassis shall be suitable for subsequent mounting of a modular (containerized) transferable equipped ambulance body conforming to the requirements detailed within these specifications		

	<b>Bidder Complies</b>	
<b>CHASSIS MODEL AND TYPE</b>	<b>Yes</b>	<b>No</b>
<p>The ambulance shall be a 2024 Ford 4x4, Type I, Super-Duty – XL / XLT Trim or equivalent to a 7.3L 2V DECVT V8, Gas Engine 430 hp @5500 rpm,            CHASSIS, 2024 FORD 193", 4 X 4 F-550 CAB/CHASSIS: XL/XLT            Liquid Springs            The chassis shall include Ford's Ambulance Prep Package.            TRANSMISSION: -Automatic. Torq-Shift electronic 6-Speed Select - Shift with overdrive. - Transmission Oil Cooler.            REAR AXLE: -Ratio: 4.10:1 limited slip            OVERALL, WEIGHT RATINGS:            -GVW: 18,000 lbs.            -Front Springs: 7,000 lbs. OEM            -Rear Springs: 11,000 lbs. (Liquid Springs)            -Shock Absorbers: 1.38" Front and Rear, Heavy Duty Gas Type            -Stabilizer Bar: Front and rear            TIRES AND WHEELS: -Quantity of seven (7) tires with spare shipped loose -Tire size to be 225/70R19.5 Load Range 'G' -Rear tires: traction, front tires: all season radials -19.5" steel wheels painted red.            BRAKES: -Front and Rear: Four-wheel disk with antilock            -Power Assist: Hydro Boost            -Parking Brake: Foot Operated, hand release            INTERIOR APPOINTMENT STANDARDS:            -HD Ford XR-50 power steering            -Tilt/telescoping steering with factory speed control            -Dual padded sun visors            -Power door locks            Exterior Upgrade Package: Code 18A            Interior Upgrade Package: Code 18C</p>		

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Dual Captain's Chairs: Code 21A Rubber cab floor mats Speed Control: Code 525 Ambulance Prep. Package: Code 47A Mirrors: Heated Power Side Mirrors Radio: Electric AM/FM Radio (SYNC 4 and 5G Wi-Fi Capability) Audible and Visual Parking Brake Alarm- Whelen Amber LED Audible and Visual Door Compartment Alarm- Whelen Red LED		
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	<b>Bidder Complies</b>	
<b>SELF-ADJUSTING BRAKES</b>	<b>Yes</b>	<b>No</b>
The gross vehicle weight rating shall be 18,000 lb. The chassis brake system shall be OEM standard hydraulic disc with front and rear anti-lock system.		

	<b>Bidder Complies</b>	
<b>SPARE TIRE</b>	<b>Yes</b>	<b>No</b>
A spare tire and wheel shall be provided and shipped loose with the vehicle. It shall match the tires specified for the vehicle. (Painted Red)		

	<b>Bidder Complies</b>	
<b>SWAY BAR</b>	<b>Yes</b>	<b>No</b>
The OEM supplied front sway bar and a Road Master Brand (or equivalent) 1.50" diameter rear sway bar shall be provided to assist the vehicle stability. This Road Master Brand sway bar shall be engineered to improve handling characteristics by reducing the body roll and balancing the weight transfer during cornering.		

	<b>Bidder Complies</b>	
<b>SHOCK ABSORBERS/SPRINGS</b>	<b>Yes</b>	<b>No</b>
Front and Rear Heavy Duty Shock Absorbers shall be OEM supplied and installed. Front Springs Heavy Duty and Rear Liquid Springs installed.		

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<b>ELECTRIC THROTTLE</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
The OEM Stationary Elevated Idle Control (SEIC) shall be installed as part of the Ambulance Prep Package. The throttle shall be preset to initiate engine high idle at 1300 RPMS when activated. When the transmission is placed in Park and the Parking Brake is engaged, the throttle will be activated. Releasing the Parking Brake, depressing the brake pedal or shifting the transmission into gear shall deactivate it.		

<b>APPOINTMENTS</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
The manufacturer's heaviest duty heating and air conditioning package must be used. The rear-view mirror shall be day/night visibility type. The vehicle shall be equipped with dual electric multi-speed, delay windshield wipers and washer mechanism. The seatbelt/shoulder harness mechanisms shall be encased with a high impact plastic trim housing color keyed to match the driver's compartment. The balance of the driver's compartment trim shall be finished with laminate, carpet, and cloth backed vinyl trim panels with .375" thick high-density foam padding.		

<b>CAB SEATING</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
The driver's side compartment shall be provided with OEM dual high-back captain's chairs with armrests and chassis manufacturer standard features for the trim level selected.		

<b>HEADLINER</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
The cab headliner shall be OEM standard automotive cloth.		

<b>SIGNAGE</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
One (1) "NO SMOKING OXYGEN EQUIPPED" and "FASTEN SEATBELT" sign shall be installed in the driver's compartment on the passenger side of the dash. These signs shall be engraved or molded plastic for durability.		

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	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>CAB FLOORING</b>		
.The cab flooring shall be standard OEM supplied rubber flooring.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>RADIO/SIREN/MAP BOX WITH CUP HOLDERS</b>		
To be fabricated to hold two (2) radios, one (1) siren box, two (2) cup holders, four (4) boxes of gloves, Map Storage, have four (4) USB ports and one (1) Outlet 125VAC. (to be designed with at the same times as the ambulance is designed)		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>RECHARGEABLE FLASHLIGHTS</b>		
Two (2) Stinger Color-Rite Flashlights rechargeable with chargers to be provided. One (1) installed and wired in the cab behind driver’s seat. One (1) to be installed and wired in the cab behind the passenger’s seat. These flashlights will charge while the ambulance is running as well as when the ambulance is shut down and on shoreline.		
Two (2) rechargeable Stream light, E-Spot Firebox flashlights with charges to be provided. Both will be installed and wired on the driver’s side rear compartment (Compartment 3)		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>BETWEEN CAB AND PATIENT COMPARTMENT</b>		
One (1) Recessed Outlet 125VAC with a hook and adjustable strap for the Lucas Device.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>BATTERY SWITCH</b>		
The battery switch is to be installed on the lower side of the driver’s seat. This system will have an integral timer pre-set to open the power circuit from the batteries to the main circuit board and interrupt power to all conversion functions after 5 minutes with chassis ignition OFF. Or Equivalent System (i.e. Visat System).		

# RAYMOND FIRE Town of Raymond, Maine AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

<b>ENGINE BLOCK HEATER</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
The OEM chassis engine block heater shall be wired to the external 115-volt power source. A “summer switch” to allow the block heater to be turned off in warm weather shall be provided and mounted within easy reach behind the driver’s seat.		

<b>TIRE FILL EXTENSIONS</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
Steel valve stem extenders to be installed and tested.		

<b>VEHICLE WIRING</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>All insulated cable shall conform to SAE J1292 and J1128. All wire shall be of a gauge size to carry 125% of the current required by the specific circuit without overheating. All wires are to be color coded and stamped with the function of the circuit every four (4) inches for the continuous length of the line. Where practical or required, all wires shall be routed in high temperature looms with a rating of 300 degrees Fahrenheit. All conductors shall be annealed copper with machine crimps. Wiring harnesses shall be installed and warranted by the vehicle manufacturer.</p> <p><b><u>NO EXCEPTIONS WILL BE ALLOWED.</u></b> This system must meet or exceed AMD Standard 005 Ambulance 12-volt DC Electrical System.</p>		

<b>ALTERNATORS</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
Dual Alternators: 410 amp for 6.7 diesel engine. Alternators must be covered by the chassis manufacturer’s warranty.		

<b>ADDITIONAL WIRING</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
Additional wiring for a cell phone with charger cradle in the cab on the dashboard near the passenger side. Wiring and grounded for use of a laptop computer in the cab of the ambulance and wiring for two (2) radios and antennas.		

# RAYMOND FIRE Town of Raymond, Maine AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>DRIVE SHAFT</b>		
A 0.50" framed steel rod drive shaft loop or guard shall be installed just behind the U-joint. This is designed to prevent the driveshaft from creating a dangerous situation such as hitting the ground or stopping in the event of a universal joint failure. The driveshaft loop shall be welded to non-critical chassis frame components.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>PORTABLE EQUIPMENT CHARGING</b>		
Four (4) additional Black Dual USB Power Charger 12/24 VDC /Output 5v 2.1A w/LED for charging portable battery powered devices, i.e. Suction units, hand lights, defibrillators, portable radios, etc. shall be provided. These circuits shall prevent discharge of chassis batteries by only permitting the charging of portable devices when the vehicle is either running or the battery conditioner is connected to shore power (operational). This implies that a battery conditioner is required and may be specified in a different location within these detailed specifications, but is not necessarily specified within this paragraph. A minimum of 10-amp circuit breaker protection shall be provided for each circuit. These tagged, identified leads shall be located, two (2) driver side and passenger side action areas in the patient compartment and two (2) in the vehicle cab.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>CIRCUIT PROTECTION</b>		
<p>Circuit breakers and relays are to be mounted securely to the inside of the electrical control center located in the patient compartment forward of the technician seat backrest. This cabinet shall have a door large enough for complete and unobstructed inspection and maintenance and shall hinge out of the way for free movement. The control center shall be large enough to house all circuit breakers, relays, flashers, and the medical isolator. Space for one (1) additional 15-amp single pole breaker shall be provided on the main electrical board.</p> <p>All auxiliary circuitries shall incorporate overload protection devices of automatic or manual reset thermal breaker types with spade style plug-in connectors and shall continuously carry 100% of the rated capacity for a minimum of one (1) hour. Bosch, Potter &amp; Brumfield, Hella, and Omron brand relays may be used. All circuit breakers and relays are to be spade mounted snap-in type for easy removal. The circuit board shall be screen printed with all circuits legibly numbered and labeled.</p> <p>The electrical distribution panel must be a double-sided copper trace printed circuit board with a double-sided laminated isolator. The board finish shall be semi-gloss non-photo imageable solder mask over bare copper with hot air-leveled solder over non-masked copper. The board tracks must be sized for a three-ounce copper panel with a minimum thickness of 0.0042 inches of copper on each side. Fuse capacity shall determine the width and thickness requirements of each circuit track (minimum circuit track with the 100 mils). All housed in the board must be</p>		

# RAYMOND FIRE Town of Raymond, Maine AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

<p>plated through. Terminal strips must be mounted on the board for connection of wiring harnesses. The printed circuit board must meet or exceed a polyclad layered glass epoxy NEMA GRADE FR-4 material and meet or exceed UL-94-V-O flammability rating and MIL-P-13949F-4B Specifications. The printed circuit board surface protection shall be DuPont Vaclel "8000" Polymer (or equivalent) and withstand the MIL-STD-810C Corrosion Test and the MIL-STD-055110D Thermal Shock Test.</p> <p>Design must be interchangeable with model styles from vehicle to vehicle without modification to wiring or compartment construction. In addition to the main circuit board, there shall be additional boards of the same design to provide control, lighting, and indication for the compartment and entry doors. All wires and connectors shall be of like resistance materials. One (1) complete set of each size relay and circuit breaker shall be included and mounted next to the main circuit board.</p>		
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	<b>Bidder Complies</b>	
<b>CIRCUIT GROUNDING</b>	<b>Yes</b>	<b>No</b>
<p>Grounding must be accomplished by use of a full ground wire harness. All ground wires shall be white in color and stamped every four (4) inches with the word "GROUND" or lettering "GRND". Ground return connections shall be made to the chassis structure, protected from corrosion, and available for service. In no case shall the aluminum body be used as a ground return.</p> <p>Additionally, there shall be a minimum of five (5) ground points between the chassis and body components of the ambulance. One (1) 3/4", 4 AWG braided ground strap between the engine block and the chassis frame; one (1) 2 ga. stranded copper ground strap between the body and chassis frame; one (1) 2 AWG stranded copper ground strap between the battery box and the chassis frame; one (1) 2 AWG stranded copper ground strap between the driver's seat base electrical panel and the chassis frame; and one (1) 2 ga. stranded copper ground strap between the cab floor and the chassis frame. These critical ground points shall be established with crimped copper ring connectors and dual star washers at each end of the ground strap. Due to the application of undercoating these grounds require no specific labeling.</p>		

	<b>Bidder Complies</b>	
<b>INSTALLATION AND PROTECTION</b>	<b>Yes</b>	<b>No</b>
<p>Wires shall be grouped or harnessed where practical. Metal edges through which cables pass shall be protected with non-metallic bushings or grommets. All auxiliary circuits shall be wired separately and distinct from the vehicle chassis circuits, color coded, and clearly numbered. All wire passing from the console head shall be encased in a heavy-duty loom. All wiring shall be clipped or otherwise attached at suitable intervals to prevent rubbing or chafing due to wire movement, vibration, etc. All wiring must be stamped, color coded, labeled to indicate wire function, and conform to SAE 1292.</p>		



# RAYMOND FIRE

## Town of Raymond, Maine

### AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

<b>SEQUENCER/LOAD MANAGER</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>To prevent excessive loading or load spikes on the electrical generating system at system start up, a sequencer/load manager shall be integrated into the main circuit board for stepped control of the main master emergency functions. The sequencer shall sequence ON or OFF all master emergency functions at 0.5-second intervals. The sequencer/load manager shall sequence specified loads ON, in the following manner:</p> <ol style="list-style-type: none"> <li>1. Body Warning Lights</li> <li>2. Patient Compartment Dome Lights</li> <li>3. Patient Compartment HVAC</li> <li>4. Front Light Bar</li> <li>5. Intersection and Grille Lights</li> <li>6. Rear Light Bar-if needed</li> <li>7. Wig-Wag Headlights-if installed</li> </ol> <p>When a “low voltage” situation is detected, an audible alarm shall sound, and an indicator light shall illuminate signaling the situation. When the vehicle transmission is in PARK, the lead manager shall shed emergency functions until the system output voltage at the amperage draw of the systems still in operation equalize. When in PARK and the vehicle PARK BRAKE is applied, the Stationary Elevated Idle Control (SEIC) will activate to provide additional voltage for the system. If the “low voltage”, 12.0 volts or lower persists, the sequencer/load manager shall initiate the lead shedding sequence at each 0.2 volt increment in the reverse order of these emergency functions.</p> <p>NOTE: Vital medical equipment such as suction aspirator system and/or electric oxygen valve shall not be included in the lead shedding sequence. These systems shall remain powered until total failure of the electrical generating system occurs.</p> <p><b>LOW VOLTAGE MONITORING SYSTEM</b></p> <p>There shall be installed, as an integral function of the ambulance conversion main power board, circuitry that continually monitors electrical system voltage. This system shall activate an audible alarm and a steady burn red LED warning light to indicate that system voltage has reached or fallen below 11.7 volts. A switch shall be included to deactivate the audible alarm. The audible alarm, LED indicator light and the switch shall be located on an auxiliary control panel located in the driver’s control console below the main switch panel.</p> <p>Or Equivalent (i.e. Vista System)</p>		

# RAYMOND FIRE Town of Raymond, Maine AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

	<b>Bidder Complies</b>																			
<b>DRIVER SWITCHING CONSOLE</b>	<b>Yes</b>	<b>No</b>																		
<p>A console shall be built onto the engine cover. At the far right of the console will be housed the patient code lights and door open indicator lights. The ammeter, voltmeter, and battery indicator lights shall be located on a separate panel. The ammeter, depending on equipment/chassis manufacturer specified, shall indicate the current flow to the batteries or from the alternator. The 12-volt voltmeter shall indicate the voltage of the batteries. An audible low voltage-warning device shall be installed with a reset cancel switch. This device shall automatically reset once the batteries are above 11.8 volts. An engine hour meter will be located near the bottom of the console on the driver's side and will be wired to ensure an accurate reading of running hours. Both the volt and ammeters shall be digital with LED display.</p> <p>The complete console, manufactured of automotive plastics, shall be free of sharp edges and molded to match the contours of the engine cover. It shall contain all emergency switches, module switching, and legends according to their function and have backlighting controlled by the headlight rheostat. The switch terminals shall be Euro-style, moisture resistant, rocker type, and shall be UL listed and CSA approved. Switch terminals shall be ¼" spade types. The switch legends shall be engraved plastic inserts. The backlighting shall light the words themselves rather than the background. Backlighting shall be accomplished with electro-luminescent light strips for their benefits of consistent light output, low amp draw, and extended service life. The console shall contain the following features:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Master</td> <td style="width: 50%;">Patient Status Indicator Lights</td> </tr> <tr> <td>Primary/Secondary</td> <td>Patient Door Open Red Light</td> </tr> <tr> <td>Front Light bar</td> <td>Compartment Door Open Amber Light</td> </tr> <tr> <td>Backup Alarm Disable</td> <td>Hour meter</td> </tr> <tr> <td>Horn/Siren</td> <td>[1] Ammeters</td> </tr> <tr> <td>Left side Scene Lights</td> <td>Voltmeter</td> </tr> <tr> <td>Rear Load Lights</td> <td>Battery Indicator Lights</td> </tr> <tr> <td>Right-side Scene Lights</td> <td>Spare Switch</td> </tr> <tr> <td>Module Disconnect</td> <td></td> </tr> </table> <p>Additional switches shall be added to the console when specified in this document. Two (2) additional spare switches shall be provided in the driver's switching console panel for future use. A cover shall be provided for each to protect the wiring connections.</p> <p>Or Equivalent System (i.e. Vista System)</p>	Master	Patient Status Indicator Lights	Primary/Secondary	Patient Door Open Red Light	Front Light bar	Compartment Door Open Amber Light	Backup Alarm Disable	Hour meter	Horn/Siren	[1] Ammeters	Left side Scene Lights	Voltmeter	Rear Load Lights	Battery Indicator Lights	Right-side Scene Lights	Spare Switch	Module Disconnect			
Master	Patient Status Indicator Lights																			
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# RAYMOND FIRE Town of Raymond, Maine AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

	Bidder Complies	
	Yes	No
<b>AUDIBLE AND VISUAL ALARMS/ 360 Camera System</b>		
An audible and visual “Door Open” alarm shall be provided and installed in the cab area. The warning light shall be LED and installed in the ceiling area of the cab. It shall warn the driver when any compartment or module entry door on the vehicle is open or ajar and the vehicle is placed into gear.		
An audible and visual “Parking Brake” alarm shall be provided and installed in the cab area. The warning light shall be LED and installed in the ceiling area of the cab. It shall warn the driver when the Parking Brake is engaged when the vehicle is placed into gear.		
<b><u>The ambulance shall have a 360-degree camera system to separate viewing screening that will be mount on top of dashboard.</u></b> TadiBrothers -360 Degree Fire Truck Camera System in 3D Surround View with Integrated DVR		

	Bidder Complies	
	Yes	No
<b>BATTERIES</b>		
There shall be two (2) “No Maintenance” 12-volt batteries. They shall total not less than 770 CCA with 180 minutes of reserve capacity. The batteries shall be relocated from the OEM locations to a compartment/slide out tray on the curbside front of the module body. Per Ford requirements, “There should be NO battery disconnect switches or devices installed that in any way cut-off power to the Ford Chassis. Any battery disconnect devices should interrupt power to the ambulance module only”. There shall be a Model MAC200/300 switch with a five-minute timer that secures power to the conversation module once the ignition has been turned off.		

	Bidder Complies	
	Yes	No
<b>BATTERY</b>		
An additional 12-volt battery shall be provided. It shall have a capacity of 850 CCA with 90 minutes of reserve capacity. The total capacity for all three (3) batteries supplied shall be no less than 2550 CCA.		

	Bidder Complies	
	Yes	No
<b>POWER OUTLET</b>		
Four (4) Black Dual USB Power Charger 12/24 VDC /Output 5v 2.1A w/LED shall be installed. Two (2) forward section of the primary action areas (Driver Side and Passenger Side), above the countertop. Two (2) front cab, built into the center console.		

# RAYMOND FIRE Town of Raymond, Maine AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

	Bidder Complies	
	Yes	No
<b>115-VOLT POWER</b>		
There shall be 115-volt AC wiring furnished. A three-wire system is used for powering medical equipment, battery charger, etc. This electrical system, including wiring and associated equipment, shall comply with AMD STD 009, 120 V AC Electrical Systems. The system shall incorporate a hospital grade GFI (Ground Fault Interrupt) device with a 20-amp circuit breaker that can also be used as a disconnect switch for the interior 115-volt outlets. Four (4) GFI devices shall be located on the street-side and passenger-side, one (1) each front and rear in the action area, two (2) GFI devices in front inside cabinet, one (1) on top shelf and one (1) on middle shelf. When an inverter is specified, an automatic transfer switch shall be furnished which will automatically turn off the inverter 115-volt supply when the 115-volt utility shoreline power is applied.		

	Bidder Complies	
	Yes	No
<b>INVERTER AND WIRING</b>		
A Vanner inverter shall be provided, installed, and wired. An “on/off” switch shall be provided at the rear switch panel. The inverter shall be in the second exterior compartment on the driver side.		

	Bidder Complies	
	Yes	No
<b>EXTERIOR SHORE POWER</b>		
There shall be a 115-volt male plug rated at 20 amps with a hinged cover assembly, UL listed for exterior use, located on the street-side of the ambulance body close to the driver’s door. This device shall be a Kussmaul WP model auto eject with weatherproof cover model # 091-20WP-120. <b>NO EXCEPTIONS.</b> This shall energize the vehicle’s 115-volt AC circuit from an exterior power source. This connector <b>MUST</b> be <b>Yellow</b> in color and labeled: “115-volt AC, 60 HZ, 20-amp power supply”. <b>Must</b> have outside indicator LED light showing power.		

	Bidder Complies	
	Yes	No
<b>INTERIOR 115-VOLT AC OUTLETS</b>		
There shall be six (6) three-wire duplex 115-volt AC hospital grade receptacles. Four (4) shall be in the primary action areas, in the front and back (Driver Side and Passenger Side), two (2) in the ALS cabinet. Red indicator lights shall be located on each 115-volt outlet to indicate a live “hot” circuit. Add-on style indicators are not acceptable. The receptacles shall be clearly labeled: “115 VAC”.		

# RAYMOND FIRE Town of Raymond, Maine AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>ELECTRICAL EQUIPMENT</b>		
All electrical equipment shall be electromagnetic radiation suppressed, filtered, or shielded to prevent interference with radio and telemetry equipment. The RFI shall not exceed SAE J551 limits.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>SIREN/PUBLIC ADDRESS SYSTEM</b>		
A combination siren and public address system shall be provided and mounted in the auxiliary panel of the driver's control console to the right of the driver. This unit shall have a remote amplifier and noise canceling microphone. The remote amplifier shall be located behind the face of the driver's console. Sound patterns generated by this siren shall consist of wail, yelp, and phaser modes and shall be emitted through a <b>MATCHED PAIR</b> of 100-watt rated speakers. This system shall function through both the horn ring and manually at the siren control head. Plug-in connectors shall be used between the front control console and the main harness for ease of electrical maintenance and quick access to the engine cover by removal of the console. The public address function shall be powered with the same switch as the siren functions but have a separately controlled volume function. The noise canceling microphone shall be hard wired to the control head and have a mounting bracket shipped loose with the completed vehicle. The control head shall have LED speaker diagnostics.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>BACK UP ALARM</b>		
A back up alarm shall be installed on a 2"x2" floor tube at the rear of the ambulance. This alarm shall activate whenever the ambulance is put into reverse gear. When activated, this alarm shall generate in intermittent warning tone at a minimum of 97 dB as prescribed by KKK-A-1822-F and NFPA 1917. There shall <b>NOT</b> be a "Cancel Backup Alarm" switch.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>EXTERIOR LIGHTING (FRONT)</b>		
<b>ALL LIGHTS ON THE EXTERIOR OF THE AMBULANCE SHALL HAVE BLACK BEZEL/FLANGES</b>		
Exterior lighting shall conform to FMVSS 108 and consist of OEM chassis halogen/LED headlights, ICC clearance lights, parking lights, hazard warning lights, license plate lights, tail, stop, and backup lights. Tail and stoplights shall have red, clear, and amber lenses. Electrical wires for the taillights shall be sealed to protect them from the elements of weather. Two (2) side body rear lights with red/white lenses shall flash with turn signals and steady burn with the DOT lights. Included with the bid, evidence from the lighting manufacturer shall be provided specifying warning lights that meet the photometric and chromaticity requirements of the current version of KKK-A-1822-F and NFPA 1917 as certified by a third-party testing entity.		

# RAYMOND FIRE Town of Raymond, Maine AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

<p><u>Five (5) Clearance Lights, S330 Amber Mini-LED, Marker Lights</u> Five (5) ICC/DOT lights shall be provided and installed on the upper ambulance module body. Each light shall be S330 Amber-LED, Marker Light type. Five (5) shall be installed on the front upper body corner extrusion area.</p> <p><u>Tail and Stop Lights, Whelen 600 LED, Stop/Tail/Turn with Arrow.</u> Tail and stoplights shall be Whelen 600 Series LED red and the backup lights shall be Whelen 600 Series LED clear lights with integral Whelen flanges. All LEDs and the electrical wire for the taillights and turn indicators shall be sealed and/or encapsulated to protect them from the elements of weather. The turn lights shall be Whelen 600 Series LED amber arrow turns with integral Whelen chrome flanges. The tail and backup lights shall be mounted on the rear kick plate; the turn arrows shall be mounted on the rear module body.</p> <p><u>Two (4) Grille Lights, Whelen ION T-Series Red/Whitee (Grill Lights with Clear Lenses and black flange) (Part Number: TLI#)</u> <u>Two (2) Intersection Lights, ION T-Series LED DUO Color Red/White, with Black Flange (Part Number: TLI2#)</u> <u>Six (6) Front Lights, Whelen 900 LED Red/White Super LED Lights with Clear Lenses, (Part Number: 90RC5FCR) all flanges black in color, and One (1) Whelen 900 EZ Scene Light in the center. (Part Number: 904SLB).</u> Six (6) Whelen 900 Super Red/White LED Lights with Clear Lenses. The lights shall be mounted on the front upper position on the cab. One (1) Whelen 900 EZ Scene light Center Flash/Scene-Work Light Mounted at 0 Degrees. <u>One (1) Tomar Pre – Emption Light surface mount CPI Housing</u> <u>Two (2) 600 EZ Scene Light – (1) each side of CPI Housing (Part Number: 604SLB)</u> <u>One (1) 40" Double Row: Black Oak LED Pro Series 2.0 Dual Row LED Light Bar – Combo, Spot or Flood Optics (240w/400w)</u></p>		
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	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>EXTERIOR LIGHTING (REAR)</b>		
<p><u>Five (5) Clearance Lights, S330 Amber Mini-LED, Marker Lights</u> Five (5) ICC/DOT lights shall be provided and installed on the rear upper ambulance module body. Each light shall be S330 Amber-LED, Marker Light type.</p> <p><u>Lights, Whelen 600 LED, Brake/Tail/Turn with Arrow/Back-Up</u> Tail and brake lights shall be Whelen 600 Series LED red with integral Whelen Flanges. The backup lights shall be Whelen 600 Series LED clear lights with integral Whelen flanges. The turn lights shall be Whelen 600 Series LED amber arrow turns with integral Whelen chrome flanges. The tail and backup lights shall be mounted on the rear kick plate; the turn arrows shall be mounted on the rear module body on each side. All LEDs and the electrical wire for the tail lights and turn indicators shall be sealed and/or encapsulated to protect them from the elements of weather.</p>		

# RAYMOND FIRE

## Town of Raymond, Maine

### AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

<p><u>Five (5) Rear Lights, (1) Whelen 900 Red/White Super LED With Clear Lenses, (1) Whelen 900 24 Diode LED Load Lights, (1) Whelen 900 Amber Super LED with Clear Lens, Whelen 900 24 Diode LED Load Lights, (1) Whelen 900 Blue/White Super LED With Clear Lenses, two (2) Whelen 900 24 Diode LED Load Lights located on each side of Whelen 900 Amber LED Light.</u></p> <p><u>Two (2) Additional Lights, Whelen 900 Red/Amber Split Super LED Lights with Clear Lenses. Red Section to have brake override.</u></p> <p>Two (2) Whelen 900 Red/Amber Super LED Lights with Clear Lenses, Red Section to have brake override. To be located on right and left of rear doors, below the two (2) Whelen 900 Red with Clear Lens located at the rear upper corners, and to be centered to the rear door glass.</p> <p><u>Two (2) Rear Bumper Lights, Whelen 600 Series Super Red/White LED Flashers with clear lenses.</u></p> <p>Two (2) Whelen 600 Super Red LED Lights with Clear Lenses mounted on each corner of rear bumper.</p>		
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	<b>Bidder Complies</b>	
<b>EXTERIOR LIGHTENING (DRIVER SIDE)</b>	<b>Yes</b>	<b>No</b>
<p><u>Two (2) Clearance Lights, S330 Amber Mini-LED, Marker Lights</u></p> <p>Two (2) ICC/DOT lights shall be provided and installed on the upper ambulance module body. Each light shall be S330 Amber-LED, Marker Light type. To be installed on the front and rear upper body corners extrusion area of the box.</p> <p><u>One (1) Cab Light, Whelen 700 Red/White Split LED Intersection light with Clear Lens</u></p> <p>To be mounted above front portion of front tire wheel well.</p> <p><u>Two (2) Upper Box Lights, Whelen 900 Red/White Supper LED Lights with Clear Lenses.</u></p> <p>Two (2) Whelen 900 Super Red LED Lights with Clear Lenses. The lights shall be mounted on the upper front and rear corners of the box.</p> <p><u>Two (2) 900 EZ Scene Light in the center. (Part Number: 904SLB).</u></p> <p>Two (2) Whelen 900 Scene Lights Mounted next to each Upper Box Whelen 900 Supper LED Lights.</p>		

	<b>Bidder Complies</b>	
<b>EXTERIOR LIGHTING (PASSENGER SIDE)</b>	<b>Yes</b>	<b>No</b>
<p><u>Two (2) Clearance Lights, S330 Amber Mini-LED, Marker Lights</u></p> <p>Two (2) ICC/DOT lights shall be provided and installed on the upper ambulance module body. Each light shall be S330 Amber-LED, Marker Light type. To be installed on the front and rear upper body corners extrusion area of the box.</p> <p><u>One (1) Cab Light, Whelen 700 Red/White Split LED Intersection light with Clear Lens</u></p> <p>To be mounted above front portion of front tire wheel well.</p> <p><u>Two (2) Upper Box Lights, Whelen 900 Red/White Supper LED Lights with Clear Lenses.</u></p>		

# RAYMOND FIRE

## Town of Raymond, Maine

### AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

<p>Two (2) Whelen 900 Super Red LED Lights with Clear Lenses. The lights shall be mounted on the upper front and rear corners of the box.  <u>Two (2) 900 EZ Scene Light in the center. (Part Number: 904SLB).</u></p> <p>Two (2) Whelen 900 Scene Lights Mounted next to each Upper Box Whelen 900 Supper LED Lights. Two (2) Whelen 900 Scene Lights Mounted next to each Upper Box Whelen 900 Supper LED Lights.</p>		
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	<b>Bidder Complies</b>	
<b>WARNING LIGHT FLASH REQUIREMENTS</b>	<b>Yes</b>	<b>No</b>
<p>Within the flash pattern established for each light or light group by KKK-A-1822-F, and NFPA 1917, each emergency light shall flash on/off 75 to 125 times per minute. Each light shall have a minimum of 20 square inches of illuminated viewing area. The flash pattern for the warning lights on this vehicle shall be as described in KKK-A-1822-F, Section 3.8.2.1, table 1. Compliance with this specification shall not be compromised to maintain a high level of conspicuity for 360-degrees around the vehicle.</p> <p><u>Wire Lights to Brakes. Brakes Override Flashers</u></p> <p>Two (2) Lights to be wired to brakes. The brakes shall override the flashers. The department shall specify the lights upon award of bid.</p>		

	<b>Bidder Complies</b>	
<b>CONSTRUCTION CHARACTERISTICS</b>	<b>Yes</b>	<b>No</b>
<p>To produce a high-quality body structure, which meets or exceeds all mandated standards and to support the Lifetime, Transferable Structural Warranty to be offered by the vehicle manufacturer, the following construction characteristics and materials must be present in the vehicle offered for purchase.</p> <p>All body panels, structures, and extrusions shall be fabricated of aluminum using alloys, which consistently meet or exceed the load requirements of the vehicle. Unitized body construction will be accomplished by MIG welding all sheets, radius extrusions, corners, structural members, etc. together. All body surface aluminum side panels and roof panels shall be intermittently MIG welded to body frame support members in such a manner as to provide maximum strength and durability without causing heat warp. All exterior metal-to-metal body seams or the area of attachment of one aluminum panel to another shall be MIG welded. All such welds shall be ground smooth and filled for proper paint adhesion and appearance. The body structure shall be built and warranted by the ambulance manufacturer. This body must meet or exceed AMD Standard 001, Static Load Test for Ambulance Body Structure. <b>NO EXCEPTIONS ALLOWED.</b></p>		



# RAYMOND FIRE Town of Raymond, Maine AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

<b>CERTIFIED WELDING PERSONNEL</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>To assure that the specified vehicle meets the letter, as well as the intent of this Specification, welding of body structures, chassis attachment points, doors, any aluminum or stainless-steel components or attachments shall be performed by or directly supervised by personnel Certified by the American Standard Welding Association (ASWA). These individuals shall have proof of current certification and shall make such proof available to the department upon reasonable demand. <b>NO EXCEPTIONS ALLOWED.</b></p>		

<b>WELDING TECHNIQUES, MATERIAL AND EQUIPMENT</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>To meet this Specification, welding operations shall be performed with certain specific techniques, materials, and equipment. All welds shall be laid in the vertical-up direction to achieve as close as possible to one hundred (100%) percent penetration of joined materials. Welds laid in the vertical-down direction cannot achieve the required level of penetration. To assist in the dissipation of heat from a weld site joining two flat panels, a heat fence paste shall be applied according to the stated requirements of the manufacturer of the substance. The purpose of the heat fence is to efficiently disperse the heat created by the welding process and limit the amount of deformity produced in the joined materials. All Metal Inert Gas (MIG) welding operations shall employ welding machines commonly known as “pulse” welders. Inherent in the operation of this type of welding machine is that the heat generated by welding is significantly reduced. Consequently, deformity in the materials being joined diminished.</p> <p>Tungsten Inert Gas (TIG) welding with #4043 rod shall be employed to perform finish welding operations on and weld that is visible or unpainted, i.e. aluminum diamond plate door sills, bumper pods, etc.</p>		

<b>CORNER EXTRUSIONS</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>To ensure the load bearing capabilities and structural durability of the ambulance body in the event of an accident or impact, specifically designed, extruded aluminum corner posts must be used. The extrusion shall include a central web and two (2) lateral webs to achieve the strength required for this application. The extrusion shall be formed of 6061T6 aluminum with a minimum tensile strength of 29,000 psi and have a radius of 2.5”. The central web component shall be 0.1875” thick and shall be flanked by two lateral webs of 0.130” thickness. The lateral webs shall thicken near the radius of the ambulance body. The outer surfaces of the lateral webs shall be smooth and provide an interface surface for the 2” x 2” x 0.125” wall extruded aluminum tubes to jointly form each of the four corners of the ambulance body.</p>		

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		<b>Bidder Complies</b>	
<b>ROOF</b>		<b>Yes</b>	<b>No</b>
<p>The roof shall be constructed of one-piece 0.090" smooth aluminum. This aluminum shall be a highly corrosion-resistant alloy with 2.5% magnesium content and a tensile strength range of 28,000 to 33,000 psi.</p>			
		<b>Bidder Complies</b>	
<b>SIDES</b>		<b>Yes</b>	<b>No</b>
<p><i>Street-side:</i> This side shall be constructed of 0.125" aluminum sheets with a highly corrosion-resistant alloy with 2.5% magnesium and a tensile strength range of 28,000 to 33,000 psi. The body shall have straight sides with a minimum of welding deformity. Exterior compartment doorjambs shall be formed integrally into the sidewall 0.125" aluminum sheets. Extruded doorframes are not acceptable.</p> <p><i>Curbside:</i> The side shall be constructed of 0.125" aluminum sheets with a highly corrosion-resistant alloy with 2.5% magnesium and tensile strength range of 28,000 to 33,000 psi. The body shall have straight sides with a minimum of welding deformity. Exterior compartment doorjambs and curb-side entry doorjambs shall be formed integrally into the sidewall 0.125" aluminum sheets. Extruded doorframes are not acceptable.</p> <p>The completed roof, floor, sidewall, and ceiling structures shall be treated with a vapor and sound-deadening barrier. This vapor and sound-deadening barrier shall not contain any type of latex. <b>NO EXCEPTIONS.</b></p>			
		<b>Bidder Complies</b>	
<b>FLOOR</b>		<b>Yes</b>	<b>No</b>
<p>The body floor shall have a tubular frame structure with main members constructed of 0.125" x 2" x 2" and 0.125 "x 1" x 2" aluminum tubes, all fully welded. This framework is mounted utilizing rubber gaskets to prevent contact of dissimilar metals. The tubular framing shall be on average of 12" on center. Aluminum bar stock 0.750" x 6.0" sill plate shall be bolted on top of the cushion rubber mounts. This is required to add additional strength, ease in mounting, and greater ease in remounting the body later. There shall be 0.250" aluminum mounting plates welded into the floor structure to provide additional mounting support for the cot mounts and technician's seat. The floor frame is then covered the entire length of the interior floor with a 0.090" aluminum moisture barrier to act as a heat shield and vapor barrier. This sub floor is sealed to the floor tubes and is screwed through when the plywood sub floor is installed.</p>			

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<b>COMPARTMENT AND ENTRY DOOR CONSTRUCTION</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>All exterior compartment and entry doors shall be constructed of a single piece of 0.125" sheet aluminum. The use of extrusions for doorjambs is not allowed. The door profile shall be a double pan form of 2.75" total thickness. Each door shall have the seal installed on the outer door pan flange to assure maximum sealing surface and to protect the rotary latching mechanism from environmental influences. Access for maintenance to the latching mechanism shall be through 2.0" mounting holes located in the upper and lower outboard edges of the inner door pan panel.</p> <p>All exterior compartments will be sweep-out with "Turtle Tile" in the base of the cabinet and on all shelves inside of the exterior cabinets.</p>		

<b>EXTERIOR COMPARTMENT DEPTH</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>All exterior compartments shall have a clear depth of approximately 18.75", except the O2 compartment (Street side front compartment) and the Backboard compartment (curbside rear compartment) which shall have a minimum (inside) depth of 20.75". Capable of accommodating the Stryker Stair Chair Model # 6252.</p>		

<b>INSULATION</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>Prior to installation of the insulation, the entire interior body interior surface will be sprayed with a heavy protective coating of sprayed-in sound deadening, vapor barrier and corrosion protection. The body shall have insulation in the walls and ceiling providing an insulation factor of R-11. The insulation shall be fire retardant, non-settling, non-hydroscopic, and mildew and vermin proof.</p>		

<b>HEAT SHIELDS AND VAPOR BARRIER</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>To further insulate and protect the patient compartment, the ambulance manufacturer shall install 18-gauge galvanized steel below the sub-floor material to act as a heat shield and vapor barrier. An 18-gauge galvanized steel sheet with waterproof insulation laminated to it shall be installed directly to the bottom of the floor tubes. This will create a sandwich style construction to further insulate the patient floor around the muffler and exhaust system.</p>		

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To further insulate and protect the patient compartment, the ambulance manufacturer shall install an aluminum vapor barrier. A 0.090" aluminum sheet shall be installed directly between the flooring and the 2" x 2" floor tubes. This will create a sandwich style construction to further insulate the patient floor in the area of the muffler and exhaust system.		
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	<b>Bidder Complies</b>	
<b>FENDER INSULATOR</b>	<b>Yes</b>	<b>No</b>
An additional insulator shall be provided and installed on top of the wheel well liner. This layered rubber and aluminum foil material shall diminish the effects of noise created by road debris and provide additional thermal insulation for the patient compartment.		

	<b>Bidder Complies</b>	
<b>LEFT SIDE COMPARTMENT FORWARD OF REAR WHEEL-D1 AND D2</b>	<b>Yes</b>	<b>No</b>
A full height compartment shall be provided in the forward position ahead of the wheel well. It will hold the oxygen cylinder and have a divider and two (1) adjustable shelves. It shall have approximate exterior dimensions of 18.25" wide x 77.0" high, Pocketed Top to have Inverter pre-wire, and hair horn compressor location.  <u><i>D1, Door, Solid, Vertically Hinged</i></u> The D1 compartment shall have a solid, flush mounted, vertically hinged door, constructed of aluminum. Top Shelf for storage of Inverter Pre-Wire and air Horn Compressor Location. Mounted to Door E-Z O2 Lift. <u><i>D2, Exterior Compartment, 39.4" wide x 44.25 height</i></u> A low compartment (D2) shall be provided in the rearward position ahead of the wheel well. It shall have two (2) adjustable shelves. It shall have approximate exterior dimensions of. <u><i>D2, Doors, Double, Solid, Vertically Hinged.</i></u> The D2 compartment shall have double solid, flush mounted and vertically hinged doors. Each door shall be constructed of aluminum.		

	<b>Bidder Complies</b>	
<b>REAR OF WHEEL-D3</b>	<b>Yes</b>	<b>No</b>
<u><i>D3, Exterior Compartment, 32" W x 60" H</i></u> A compartment shall be provided in the area rearward of the rear wheel well. One (1) Adjustable shelf. It shall have approximate dimensions of 37" wide x 60" high.  <u><i>D3, Door, Single Solid, Vertically Hinged</i></u> The D3 compartment shall have single solid, flush mounted and vertically hinged door. Door shall be constructed of aluminum.  Installed two (2) IMMI Smartdock SCBA Brackets  <b>(Power for Two (2) Stream lightbox lights)</b>		

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<b>RIGHT SIDE COMPARTMENTATION FORWARD AND SIDE ENTRY DOOR-P1 AND P2</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<p>An intermediate compartment shall be provided in the upper, forward position ahead of the entry/egress door that allows easy access to the interior ALS cabinet. It shall have approximate exterior dimensions of 24" wide x 75" high.</p> <p><u><i>P1, Door, Solid, Vertically Hinged</i></u> The P1 compartment shall have a solid, flush mounted, vertically hinged door, constructed of aluminum.</p> <p><u><i>P2, Exterior Compartment, 24" wide x 14" Battery Drawer</i></u> A low compartment (P2) shall be provided in the lower, forward position ahead of the entry/egress door. It shall have approximate exterior dimensions of 24" wide x 16" high. It shall have a slide-out tray with battery mounts. The door shall be permanently affixed to create a "drawer" for easy access of batteries.</p>		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>REAR OF WHEEL WELL-P3</b>		
<p>A full height compartment (P3) shall be provided in the rearward area behind the rear wheel well. This compartment will have a divider, a minimum of two (2) adjustable shelves and it will have inside/outside access. This compartment will be deep enough to accommodate a Stryker #6252 stair chair as well as a minimum of one (1) back boards, a scoop stretcher, Reeves Stretcher, and other miscellaneous equipment. It shall have the approximate dimensions as follows: 24" wide x 80" high.</p> <p><u><i>P3, Door, Solid, Vertically Hinged</i></u> The P3 compartment shall have a solid, flush mounted, vertically hinged door, constructed of aluminum.</p>		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>SIDE ENTRY DOOR</b>		
<p>The door shall be a Glide Style door. All patient entry doors shall be constructed of a single piece of 0.125" sheet aluminum. The use of extrusions for doorjamb or doorjamb is not allowed. The door profile shall be a double pan form of 2.75" total thickness. Each door shall have the seal installed on the outer door pan flange to assure maximum sealing surface and to</p>		

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<p>protect the rotary latching mechanism from environmental influences. Access for maintenance to the latching mechanism shall be through 2.0" mounting holes located in the upper and lower outboard edges of the inner door pan panel. A rubber grommet cap shall cover these access holes. The inner door pan flange shall be formed to provide a recess in which the inner door liner panel is seated. Inner door liner panels shall be affixed to the flange with stainless steel, serrated spring washers and Torx-head machine screws. Each door shall be insulated with not less than 2.0" of spray foam. The insulation must be configured to prevent contact with or the fouling of the coated steel latch connecting rods.</p>		
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	<b>Bidder Complies</b>	
<b>SIDE ENTRY DOOR TRIM</b>	<b>Yes</b>	<b>No</b>
<p>The door shall have a 0.090" aluminum panel covering the upper and lower door and full width door panel with 0.028" Formica (or equivalent), with color to match interior and shall be impervious to moisture, easily cleaned, durable, and attractive. The middle and lower portion shall be stainless steel and removable for ease of maintenance.</p>		

	<b>Bidder Complies</b>	
<b>STEPWELL LIGHT</b>	<b>Yes</b>	<b>No</b>
<p>One (1) Whelen 4" LED light shall be provided for the curb-side step well. The light shall have a chrome flange and shall activate with the opening of the side entry door.</p> <p><u>Assist Handle</u> The side entry/egress entrance door shall have a 1.25" outside diameter, 45-degree ergonomic style assist handle.</p>		

	<b>Bidder Complies</b>	
<b>REAR PATIENT ENTRY DOORS</b>	<b>Yes</b>	<b>No</b>
<p>All patient entry doors shall be constructed of a single piece of 0.125" sheet aluminum. The use of extrusions for doorjambs or doorjambs is not allowed. The door profile shall be a double pan form of 2.75" total thickness. Each door shall have the seal installed on the outer door pan flange to assure maximum sealing surface and to protect the rotary latching mechanism from environmental influences. Access for maintenance to the latching mechanism shall be through 2.0" mounting holes located in the upper and lower outboard edges of the inner door pan panel. A rubber grommet cap shall cover these access holes. The inner door pan flange shall be formed to provide a recess in which the inner door liner panel is seated. Inner door liner panels shall be affixed to the flange with stainless steel, serrated spring washers and Torx-head machine head screws. Each door shall be insulated with not less than 2.0" of spray foam. The insulation must be configured to prevent contact with or the fouling of the coated steel latch connecting rods. The interior door pan of each exterior door shall be stamped with a unique alphanumeric code denoting the specific size of that door. This code shall ensure the quick and exact replacement of a damaged door. In addition, "C" channel bracing shall be added internally for additional door structural integrity.</p>		

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<p>Both rear patient entrance doors shall have locking handles keyed alike to the side entrance door. Each rear door shall have a two-point rotary latch with adjustable 0.50" Nader pins with head flanges at the top and bottom with release handles on the interior faces of the doors. When opened, the rear doors shall provide a "grabber" style door check, which shall be located at the top of the door. When opened, the rear doors shall activate the interior dome lights and the rear exterior load lights.</p>		
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		<b>Bidder Complies</b>	
<b>REAR PATIENT ENTRY DOOR TRIM</b>		<b>Yes</b>	<b>No</b>
<p>The door shall have a 0.090" aluminum panel covering the upper and lower door and full width door panel with 0.028" Formica (or equivalent), with color to match interior and shall be impervious to moisture, easily cleaned, durable, and attractive. The middle portion shall be stainless steel and removable for ease of maintenance.</p> <p><u>Assist Handle</u> Each rear patient entrance door shall have a 1.25" outside diameter smooth satin finish 45-degree ergonomic style assist handle.</p>			

		<b>Bidder Complies</b>	
<b>SLIDING WINDOW</b>		<b>Yes</b>	<b>No</b>
<p>The entry/egress door shall be provided with a 20" wide x 19" high horizontally sliding window. It shall have a black anodized aluminum frame, tempered, automotive, tinted safety glass and shall be provided, to prevent airborne particles from entering the vehicle, and allow for additional fresh air ventilation when the window panels are in the open position. Window shall be mounted in the window cutout with a continuous, 0.312" x 0.50" adhesive backed, ribbed rubber gasket. Compression with the inner frame component shall provide a leak-free seal. (or equivalent)</p>			

		<b>Bidder Complies</b>	
<b>FIXED WINDOWS</b>		<b>Yes</b>	<b>No</b>
<p>The rear patient entry doors shall each be provided with two (2) 20" wide x 19" high fixed window panels to allow viewing from the patient compartment, but NOT to allow viewing from the outside in. The windows shall be fixed in style to avoid intake of exhaust fumes. Each window shall have a black anodized aluminum frame, tempered, automotive tinted safety glass (no film allowed). Windows shall be mounted in the window cutout in a continuous, 0.312" x 50" adhesive backed, ribbed rubber gasket. Compression with the inner frame component shall provide a leak-free seal. (or equivalent)</p>			

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<b>EXTERIOR COMPARTMENT FABRICATION</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
All exterior compartments, excluding backboard compartments, shall be constructed of 0.100" aluminum diamond plate walls and ceilings with 0.125" smooth aluminum floors, formed and Heli arc welded. Exterior compartments are welded to both the inside wall vertical structure and floor structure components for strength and durability. Each floor shall be "sweep out" design. (or equivalent)		

<b>EXTERIOR COMPARTMENT DOOR FABRICATION</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
Each exterior compartment door shall be constructed of 0.125" aluminum sheet double pan formed with a 1.5" return bend with recessed offset supporting the 0.063" alloy aluminum diamond plate interior liner. Extruded doors and/or doorframes are not acceptable. In addition, for maximum rigidity, 2.75" inch "C" channel bracing shall be added internally for additional door structural integrity. The exterior face of the door and the door edges shall be formed from one (1) sheet of aluminum. All doors shall be flush with the body side and shall be fully insulated with polyurethane spray foam (or equivalent). When opened, the doors will activate their respective compartment lights. All compartment doors shall be keyed alike. The inner door panels shall be affixed to the flange with stainless steel serrated spring washers and Torx-head (or equivalent) machine screws.		

<b>EXTERIOR DOOR HANDLES AND LATCHING</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
Door hinges shall be full length stainless steel buffed and polished with a 1/4" stainless pin and shall be fastened to the door and door frame with self-locking stainless-steel screws. Hinges are to be of a slotted style with a round hole on each leaf of the hinge for permanent lifetime adjustment of the doors. This lubrication access shall be sealed with a removable plastic cap for protection of the internal mechanism.		

<b>EXTERIOR OXYGEN COMPARTMENT VENT</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
One (1), polished aluminum exterior oxygen compartment vent shall be provided and installed on the door of the exterior compartment that houses the oxygen tank retention system. The vent hole shall be 3" in diameter and provide adequate ventilation for gaseous oxygen should a		



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leak occur. A black plastic vent shall be provided and installed on the interior door liner covering the vent hole to protect it from intrusion by the elements when the door is open.		
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	<b>Bidder Complies</b>	
<b>DOOR SEALS</b>	<b>Yes</b>	<b>No</b>
For optimal fit and closure, the compartment and patient entry doors shall close on a 0.625" W x 0.400" thick automotive, closed cell EDPM rubber gasket adhered to first interior surface of the double pan-formed compartment doors. The gasket seal shall be located on this surface to prevent exposure of the rotary latch mechanism to water or dirt when the door is closed.		

	<b>Bidder Complies</b>	
<b>DOOR GRABBERS</b>	<b>Yes</b>	<b>No</b>
A set of door "Grabbers" shall be provided at the top of the rear doors. They shall be fastened to the door and doorframe with self-locking stainless-steel screws.		

	<b>Bidder Complies</b>	
<b>POWER DOOR LOCK SYSTEM</b>	<b>Yes</b>	<b>No</b>
The rear patient entry doors and side entry/egress door, along with all exterior compartment doors and exterior ALS door, shall be equipped with a power lock that shall be activated from within the cab, within easy reach of the driver.		

	<b>Bidder Complies</b>	
<b>HIDDEN POWER DOOR LICK SWITCH</b>	<b>Yes</b>	<b>No</b>
An additional power door lock switch shall be provided and installed in and easily accessed and hidden from obvious view. It shall be in addition to the switch installed in the cab to control the power door locks installed on designated compartment doors.		

	<b>Bidder Complies</b>	
<b>COMPARTMENT ILLUMINATION</b>	<b>Yes</b>	<b>No</b>
Each exterior compartment shall be illuminated with two (2) 4.25" round, LED lights and/or track lighting. These lights shall have clear lenses and be recessed into the compartment sides and/or ceiling above and below any specified shelf. Each door shall have an individual automatic switch to signal a "door or compartment open" condition and to turn on interior lighting mounted in the doorframe header interior to the protective door seal.		

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		<b>Bidder Complies</b>	
<b>OXYGEN TANK MOUNT</b>		<b>Yes</b>	<b>No</b>
Oxygen tank bracket to be installed inside of compartment D-1. This bracket must be for a size "M" oxygen tank. This oxygen tank retention system must meet or exceed AMD Standard 003, Oxygen Retention System.			
		<b>Bidder Complies</b>	
<b>ADJUSTABLE SHELF</b>		<b>Yes</b>	<b>No</b>
One (1) adjustable shelf will be provided and installed in the D-2 compartment. It shall be easily adjusted to accommodate equipment/supply requirements.			
		<b>Bidder Complies</b>	
<b>ADJUSTABLE SHELVES</b>		<b>Yes</b>	<b>No</b>
Two (2) adjustable shelves shall be provided in the D4 compartment. They shall be easily adjusted to accommodate equipment/supply requirements.			
		<b>Bidder Complies</b>	
<b>SAFETY LIGHTS</b>		<b>Yes</b>	<b>No</b>
An LED courtesy Light (or equivalent) shall be provided and installed on the inside, lower outboard area of each exterior door. These lights shall warn oncoming traffic of the open door while on scene.			
		<b>Bidder Complies</b>	
<b>SIDE BODY SEAMS</b>		<b>Yes</b>	<b>No</b>
All side center body seams are to be MIG welded fully, filled and body finished to create a smooth, blemish free surface for final finishing and painting. There shall be no side body molding applied or required.			
		<b>Bidder Complies</b>	
<b>REAR BUMPER</b>		<b>Yes</b>	<b>No</b>
The rear step bumper shall be approximately 94" wide and step tread depth of 10.5". The bumper shall be supported with a 1.5" x 1.5" x 0.250" wall steel tube sub frame and have 0.250" steel angle outer frame construction. The bumper shall be bolted to the vertical web of the chassis frame rails. This configuration is designed to reduce body damage by directing impact under the body and away from the patient area should a rear impact crash occur. The center			

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<p>section of the bumper shall be 7" x 46" x 2" and be constructed of an open slated diamond back material and shall flip up over center to facilitate loading a cot (or equivalent). The aluminum step shall be bolted to the sub frame for ease of replacement.</p> <p><u>Rear Kick Plate, stainless Steel Above Rear Bumper Step</u> A stainless-steel cot protection plate on the rear face of the rear step shall be provided.</p>		
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	<b>Bidder Complies</b>	
<b>BODY HARDWARE</b>	<b>Yes</b>	<b>No</b>
All body hardware, all compartment and entry doors shall be mounted on the body with stainless steel screws. All stainless mounting screws shall be dipped in or sprayed with electrolysis preventive solution before installation on the body. This is required to minimize the process of electrolysis.		

	<b>Bidder Complies</b>	
<b>BODY PROTECTION</b>	<b>Yes</b>	<b>No</b>
A full-length body rub rail shall be attached to both sides and extend from the body below the compartment doors. This rubber rail shall be constructed of 1.5" x 2" x 0.250" "C" channel aluminum. The rub rails shall be attached to the lower margin of the body skirt using stainless steel flat head mounting bolts with stainless acorn nuts to the outside and plastic or nylon washers between the rub rail and body. For additional protection and for compliance with state highway requirements, two (2) heavy-duty composite mud flaps shall be installed behind the rear dual wheels. The mud flaps shall extend the full width of each set of dual wheels.		

	<b>Bidder Complies</b>	
<b>FUEL / DEF ENTRY</b>	<b>Yes</b>	<b>No</b>
There shall be a 7.75" x 7.75" cast aluminum fuel fill protector recessed into the body above and behind the street-side wheel well. Steel fuel fill protectors are not acceptable. This protective bezel shall be sealed to the body to prevent spilled fuel from seeping behind the bezel and shall have a rubber grommet hole to protect the fuel cap retention strap.		

	<b>Bidder Complies</b>	
<b>FUEL GUARD</b>	<b>Yes</b>	<b>No</b>
A stainless-steel plate shall be installed under the single fuel fill opening. It shall protect the paint from fuel over splash and fuel cap removal.		

# RAYMOND FIRE Town of Raymond, Maine AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

<b>RUNNING BOARDS AND GUARDS</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
To provide for increased road splash protection and ease of driver/technician entry and exit, fire grade aluminum diamond plate running boards shall be installed on the vehicle. Another slip resistant surface shall be incorporated on the raised diamond plates acting as double slip resistance as this potentially hazardous stepping area.		

<b>STONE GUARDS</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
The lower forward corners of the body shall be approximately 17" high; stainless steel rolled around the corner radius and terminate at the junction of the cab and the body. These stone guards shall be fastened to the body. The top edge of each stone guard shall be sealed to prevent moisture and debris from collecting behind the guard.		
The lower rear corners of the body shall be approximately 12-1/2" high; stainless steel rolled around the corner radius and terminate at the rear kick plate area. These stone guards shall be fastened to the body. The top edge of each stone guard shall be sealed to prevent moisture and debris from collecting behind the guard.		

<b>FENDERETTES</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
Formed, stainless steel (or equivalent) fenderettes shall be provided around each rear wheel well opening. They shall help diminish damage to the wheel well area of the body caused by stones and road debris.		

<b>LICENSE PLATES</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
A rear license plate holder shall be recessed into the rear on the driver's side between the kick plate and turn signal. It shall be constructed of polished cast aluminum and have two (2) top lights to illuminate the plate. The bezel shall be mounted to the body with stainless steel screws and include a 0.060" thick closed cell foam gasket to prevent moisture from seeping behind the bezel.		

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<b>UNDERCOATING</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
Undercoating shall be liberally applied to the entire undercarriage of the chassis and vehicle body. Undercoating shall be applied to a thickness between 0.62 "to 0.125" as prescribed in KKK-A-1822-F, NFPA 1917 and according to Ford QVM guidelines (if a Ford chassis is specified).		

<b>INTERIOR PATIENT COMPARTMENT COMPONENTS</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<i>Patient compartment sound levels:</i> This vehicle shall provide an interior working environment in which the ambient noise level is less than 80dB as measured according to AMD Standard 006, Sound Level Test Code for Ambulance Compartment Interiors.		
<i>Patient compartment Carbon Monoxide levels:</i> This vehicle shall provide an interior working environment in which the Carbon Monoxide level is less, and 10 ppm as measured in accordance with AMD Standard 007, Carbon Monoxide Levels for Ambulance Compartment Interiors. A Carbon Monoxide Detector shall be provided and installed. Location to be determined during inspection		

<b>CABINET GLASS</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
The cabinet doors incorporating acrylic glass, as sliding or hinged windows shall have 0.250" thick acrylic Plexiglas (or equivalent) as the standard material.		

<b>CABINETRY</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
The patient compartment cabinetry shall be constructed of single panels or combinations of 0.750" 7-ply cabinet-grade plywood, 0.50" 5-ply cabinet-grade plywood, 0.250" 3-ply plywood and 0.125" plywood paneling materials. Include option for metal built. The combinations of material selected are dependent upon the intended function of the combination, i.e. 0.750" plywood or panels or 0.50" plywood for load bearing or supporting structure, 0.50" plywood for non-supporting dividers, and 0.250" and 0.125" material for backing and underlayment. Materials and material combinations shall be selected to provide the greatest strength and		

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<p>durability while minimizing the overall weight of the cabinet components. Solid wood cleat-stock shall be used to support joints or provide spacers between specific cabinets and for the attachment of certain cabinet accessories. To diminish the potential for surface cracking of laminate in high stress areas, an underlayment of 0.125" plywood paneling shall be applied to cabinet faces prior to the applications of the finishing facial laminate. Cabinet panels shall be joined-fastened by a combination of methods dependent upon the function of the structures being joined, to include adhesive, staples, and screws.</p> <p>All exposed surfaces shall be laminated with a minimum of 0.028" Formica laminate (or equivalent), white for cabinet interiors and a standard color for the cabinet exterior, which shall be selected by this department, to compliment the colors of upholstery and flooring.</p> <p>All vertical outside corners shall be capped with 3.25" radius aluminum extrusion and overlaid with a minimum of 0.028" laminate to form a large radius "safety corner". Protruding lower edges of overhead storage shall be finished with radius metal or plastic moldings or padded vinyl.</p> <p>The cabinet faces shall be constructed to provide the maximum size of opening for each cabinet. The openings shall be fitted with extruded aluminum, dual-track, and picture-frame type structure with sliding 0.250" thick Plexiglas windows or hinged Plexiglas doors. The shelves included in specific cabinets shall be constructed of 0.50" 5-ply, cabinet grade plywood laminated with a minimum 0.028" Formica. Each shelf shall have an anodized aluminum lip a minimum of 1" in height. Shelves shall be infinitely adjustable within the specific cabinet by means of 0.437" x 0.812" aluminum C-channel adjustable locking bolts and "L" brackets to which each corner of the shelf is attached. Spring clip attachment and suspension of shelves is not acceptable.</p> <p>All cabinetry interior seams shall be sealed to protect the cabinet material from seepage of spilled liquids. All interior materials, cabinetry, vinyl, laminates, and foam shall meet or exceed FMVSS 302, Flammability of Interior Materials.</p>		
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	<b>Bidder Complies</b>	
<b>CABINET LIGHTING</b>	<b>Yes</b>	<b>No</b>
Cabinet Lighting should be blue or red interior lighting.		

	<b>Bidder Complies</b>	
<b>PATIENT COMPARTMENT LIGHTS</b>	<b>Yes</b>	<b>No</b>
Patient compartment lighting shall consist of six (6-10) dual intensity dome lights switched in the action area control panel. These lights shall have dual bulbs (halogen/incandescent/LED) with clear lenses and shall be activated in separate banks of three (3). There shall be one (1) bank over the squad bench and one (1) bank over the primary cot. Two (2) switches shall be provided in the action area console and one (1) switch for each bank of lights with high/off/low positions. All six (6) dome lights shall also be activated on "LOW" when the side patient entry door of rear patient entry doors is opened. There shall be a three-minute time delay system		

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<p>activated by the patient entry doors. This system shall be battery hot. No ceiling light or attachment shall protrude into the patient compartment by more than 1-1/4".</p> <p>The entire light base shall be fastened securely to 0.090 aluminum backer plates located in the ceiling of the patient compartment. The light base shall have a powder coated white finish. A white finish is known to soften the overall illumination of the module, thus creating less illumination "hot spots" and more of a natural lighting effect in the patient compartment. This white base also reduces heat, thus leading to longer bulb life.</p> <p>Two (2) 39" fluorescent lights shall also be provided and installed. One (1) on/off position switch shall be provided in the action area console. LED Lights Preferred.</p>		
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	<b>Bidder Complies</b>	
<b>CEILING HEADLINER</b>	<b>Yes</b>	<b>No</b>
<p>The patient compartment headliner shall be constructed of a durable, high-gloss white, plasticized Marlite (or equivalent), and backed with a non-rigid plywood substrate material. The headliner shall be securely affixed to the roof bows and to the 0.090" aluminum accessory plate welded to the roof structure. There shall be a full-length inspection access/wire race in the center of the ceiling, which provides access to the wiring harness and antennae bases and leads. The access shall have removable padded vinyl panels.</p>		

	<b>Bidder Complies</b>	
<b>FLOORING</b>	<b>Yes</b>	<b>No</b>
<p>The sub floor of the patient compartment shall be constructed of three (3) layers of different material each suited to a specific function in the floor structure. Over the aluminum structural floor tubes, there shall be laid a single sheet of 0.090" smooth aluminum to function as a heat and vapor barrier. This sheet shall be sealed around its perimeter to prevent the incursion of environmental elements such as water and exhaust fumes. Over the 0.090" vapor barrier there shall be laid 0.750' 7-ply marine grade plywood. The marine grade plywood may be in two sections to accommodate the extended floor length of this vehicle. The small, added section shall be laid at the front of the floor and shall be under the electrical cabinet on the street-side and under the ALS cabinet on the curbside in a low traffic area. The plywood flooring and the underlying 0.090" aluminum vapor barrier shall be attached to the structural floor tubes utilizing 1.5" 8 square drive floor screws. This attachment shall be made at a minimum of six (6) points across each floor tube and the width of the patient compartment floor. All screw insertion sites, and the front panel juncture shall be filled and sanded to provide a smooth, solid surface for the vinyl top covering. The final layer of the floor shall be vinyl, anti-skid, commercial grade, heavy-duty, non-porous floor covering applied to the entire floor and roll-up in a one-piece seamless application utilizing a commercial grade contact adhesive recommended by the vinyl manufacturer. This commercial inlaid sheet vinyl shall have minimums of nominal overall thickness of 2.03mm. The flooring shall comply with ASTM F 970 (modified); regarding static load bearing and D-2047 James Test for slip resistance. There shall be a 5" roll-up splashguard installed on the street-side cabinet wall and the squad bench face. The 5" roll-up shall be supported by the installation of 5.5" x 1.5: x 0.250" thick aluminum continuous extrusion along</p>		

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the floor at the base of the street-side cabinet wall and the squad bench base. The 5" roll-up shall be supported by the installation of 5.5" x 1.5" x 0.250" thick aluminum continuous extrusion along the floor at the base the street-side cabinet wall and the squad bench base. The 1.5" leg of the extrusion is at a radius to form the curvature for the flooring and the flooring is terminated at the top of the vertical leg of the extrusion. A waterproof sealant shall be applied between the cabinetry and the floor at the cabinet and floor covering juncture.		
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	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>REAR THRESHOLD</b>		
There shall be a 6" wide, formed, stainless steel threshold protector installed on the rear interior of the body. The protector shall run the entire width of the floor at the door opening. A 2" wide, adhesive-backed non-skid material shall be installed on the threshold piece to assist with safe entry and exit from the vehicle.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>FRONT WALL IN PATIENT COMPARTMENT (WALL A) ALS COMPARTMENT (MEDICATIONS) A-1</b>		
Door Opening: 16.5h x 13.75w x 20.5d, inside DIMS: 16.5h x 13.75w x 20.5d (1) adjustable shelf, hinged aluminum door with polycarbonate inserts and center squeeze latch. Total Cabinet Weight rating 20 lbs. Must have push button locking system.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>FRONT WALL IN PATIENT COMPARTMENT (WALL A) ALS IN/OUT COMPARTMENT (EQUIPMENT) A-2/A-2-a</b>		
Both Door Openings: 21.25h x 25.75w, Inside DIMS: 24.75 x 31.5w x 21.5d, Hinged Polycarbonate Doors with full length handles and center squeeze latches (1) adjustable shelf per compartment. Total Cabinet Weight Rating = 60 lbs. each <b>This is two cabinets (each cabinet should have lighting red/blue in color)</b>  <b>Each Cabinet will have:</b> 125VAC Outlet, 12VDC Outlet and Dual USB Ports.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>FRONT WALL IN PATIENT COMPARTMENT (WALL A) ELECTRICAL CABINET (ELECTRICAL EQUIPMENT) A-3</b>		



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Access to Ambulance Electrical Controls with vented door.		
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	<b>Bidder Complies</b>	
<b>FRONT WALL IN PATIENT COMPARTMENT (WALL A) COMMUNICATIONS COMPARTMENT (EQUIPMENT) A-4</b>	Yes	No
Communications cabinet with vented doors. Vented Radio Cabinet, inside DIMS: 9.0h x 11.75w x 24.25d, hinged aluminum door chrome locking level latch.		

	<b>Bidder Complies</b>	
<b>RIGHT WALL IN PATIENT COMPARTMENT (WALL B) GLOVE HOLDER ABOVE SIDE ENTRY DOOR/O2 BOTTLE BRACKETT</b>	Yes	No
Above the side entry door recessed 3 glove size boxes. Stairwell 2 recessed Zico QR-D-2 Brackets for O2 Bottles		

	<b>Bidder Complies</b>	
<b>RIGHT WALL IN PATIENT COMPARTMENT (WALL B) CABINET 1 (FRONT OF ACTION AREA #1)</b>	Yes	No
Cabinet with solid acrylic countertop (2) pull out drawers towards the bench. Inside DIMS: 4.0h x 9.0w x 12.0d, locking push button latches.  One (1) Pull out Sharps /Trash Drawer		

	<b>Bidder Complies</b>	
<b>RIGHT WALL IN PATIENT COMPARTMENT (WALL B) CABINET 2 (REAR of ACTION AREA #1)</b>	Yes	No
Cabinet with solid acrylic countertop (2) pull out drawers towards the bench. Inside DIMS: 4.0h x 9.0w x 12.0d, locking push button latches. Life Pak mount on top of counter. To be determined later.		

	<b>Bidder Complies</b>	
<b>RIGHT WALL IN PATIENT COMPARTMENT (WALL B) BEHIND ACTION AREA #1</b>	Yes	No

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<p>The cabinet doors incorporating acrylic glass, as sliding or hinged windows shall have 0.250" thick acrylic Plexiglas (or equivalent) as the standard material. Inside / outside compartment, access to immobilization bag. DIMS: 30.0"h, x 8.0"w, Door with full length handle with squeeze latch.</p>		
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	Bidder Complies	
	Yes	No
<b>RIGHT WALL IN PATIENT COMPARTMENT (WALL B)</b> <b>ACTION AREA #1 BENCH SEAT / STORAGE</b>		
<p>The squad bench shall be 21" deep x 42" wide x 14.25" high with open storage under the seat. The front face, lid and ends of the squad bench shall be fabricated from .750" 7-ply plywood and laminated. The lids shall have gas strut style hold-open devices and paddle handle slam latches that automatically hold the lids closed and to prevent opening in case of accident. The lids shall automatically open when the latches are released. The lids shall be fitted with a removable cushion covered with a heavy grade fabric backed vinyl that meets FMVSS 302, Flammability of Interior Materials. Three (3) sets of Type 1, retractable seat belts shall be installed on the curbside wall. Anchor points for these belts are attached through and to the .250" aluminum plate welded into the curbside wall structure. The retractors shall be automotive style with plastic housings. The seat belt components and anchor points shall meet the requirements of KKK-A-1822-F 3.11.4, 3.11.6, NFPA 1917 and FMVSS 209 and 210. The squad bench backrest shall be comprised of one (1) full width x 3" thick x 16" high protective pad. The backrest pad shall be easily removed for cleaning and reinstalled without special tools.</p>		

	Bidder Complies	
	Yes	No
<b>RIGHT WALL IN PATIENT COMPARTMENT (WALL B)</b> <b>CABINET 3 &amp; 4</b>		
<p><b>Cabinet 3 and 3a:</b> Over Action Area Seat, Two (2) Cabinets, Openings: 6.25h x 29.25w, Inside DIMS: 6.25h x 29.25w x 10.25d, Top Hinged polycarbonate Doors with squeeze latches</p> <p><b>Cabinet 4,</b> 30" H x 8"W, in/out compartment to P3 to access C-Collars, should be acrylic door with 1 stainless steel flush pull latch.</p> <p><b>Under Cabinet: Attendant Lighting</b></p>		

	Bidder Complies	
	Yes	No
<b>REAR WALL (WALL C) FRANKLIN CLOCK</b>		

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One (1) 12/24 hour illuminated digital clock that can show seconds shall be provided and installed directly above the rear patient entrance doors, recessed into the center of the rear head pad. It shall be wired directly to the vehicle electrical system. Centered in Door Pad.		
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	<b>Bidder Complies</b>	
<b>REAR WALL (WALL C) INSIDE DOOR</b>	<b>Yes</b>	<b>No</b>
(2) Single Glove Box Holders recessed in each door. (2) Yellow Stainless steel anti-microbial v-bars and assist handles (2) Amber Lights that illuminate when door is open. Red/White Reflective strip on each side of door.		

	<b>Bidder Complies</b>	
<b>LEFT WALL INSIDE PATIENT COMPARTMENT (WALL D) REAR OF ACTION AREA</b>	<b>Yes</b>	<b>No</b>
(1) One Yellow stainless steel anti-microbial assist handles. (1) One Exhaust Vent		

	<b>Bidder Complies</b>	
<b>LEFT WALL INSIDE PATIENT COMPARTMENT (WALL D) CABINET 1</b>	<b>Yes</b>	<b>No</b>
D1-Cabinet 16.5h x 16w Inside DIMS: 16.5 x 16.0w x 17.25d (1) adjustable shelf, Hinged polycarbonate door with hold-opens center squeeze latch		

	<b>Bidder Complies</b>	
<b>LEFT WALL IN PATIENT COMPARTMENT (WALL D) ACTION AREA #2 BENCH SEAT / STORAGE</b>	<b>Yes</b>	<b>No</b>
The squad bench shall be 21" deep x 42" wide x 14.25" high with open storage under the seat. The front face, lid and ends of the squad bench shall be fabricated from .750." 7-ply plywood and laminated. The lids shall have gas strut style hold-open devices and paddle handle slam latches that automatically hold the lids closed and to prevent opening in case of accident. The lids shall automatically open when the latches are released. The lids shall be fitted with a removable cushion covered with a heavy grade fabric backed vinyl that meets FMVSS 302, Flammability of Interior Materials. Three (3)		

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sets of Type 1, retractable seat belts shall be installed on the curbside wall. Anchor points for these belts are attached through and to the .250" aluminum plate welded into the curbside wall structure. The retractors shall be automotive style with plastic housings. The seat belt components and anchor points shall meet the requirements of KKK-A-1822-F 3.11.4, 3.11.6, NFPA 1917 and FMVSS 209 and 210. The squad bench backrest shall be comprised of one (1) full width x 3" thick x 16" high protective pad. The backrest pad shall be easily removed for cleaning and reinstalled without special tools.		
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	<b>Bidder Complies</b>	
<b>LEFT WALL INSIDE PATIENT COMPARTMENT (WALL D) Infront of Action Area</b>	Yes	No
(3) Pull out drawers: Inside DIMS: 4.5h x 14.5w x 13.25d, Locking stainless steel flush pull latch		

	<b>Bidder Complies</b>	
<b>LEFT WALL INSIDE PATIENT COMPARTMENT (WALL D) ACTION AREA #2</b>	Yes	No
Door Opening: 9.5h x 14.0w, Inside DIMS: 9.5h x 14.0w x 13.25d, Right Hinged polycarbonate door locking stainless steel flush pull latches cabinet.		

	<b>Bidder Complies</b>	
<b>LEFT WALL INSIDE PATIENT COMPARTMENT (WALL D) CABINET 2</b>	Yes	No
D-2, Cabinet, 14.25" H x 46.25" W x 17.25" D (2) Sliding Polycarbonate doors, with Center Divider.		

	<b>Bidder Complies</b>	
<b>Left Wall Inside Patient Compartment Counter</b>	Yes	No
Solid acrylic countertop, with IV Pole that goes from Counter to underneath cabinet above.		

	<b>Bidder Complies</b>	
<b>ACTION AREA (WALL D)</b>	Yes	No
(2) Ohio Med Oxygen Outlet (2) Oxygen bypasses		

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(1) Countertop SSCOR Suction Canister with Mount and Suction Control (1) 125VAC Outlet, 12VDC Outlet and Dual USB Ports. (1) Recessed Fire Research Intercom		
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	<b>Bidder Complies</b>	
<b>LEFT WALL INSIDE PATIENT COMPARTMENT (WALL D) CABINET 7/7a</b>	<b>Yes</b>	<b>No</b>
(2) Two Cabinets 9.5”h x 14.0” w x 8.5d, with right hinged Polycarbonate doors with locking stainless steel flush pull latches.		

	<b>Bidder Complies</b>	
<b>OXYGEN COMPARTMENT</b>	<b>Yes</b>	<b>No</b>
The oxygen cylinder storage compartment shall be in the street-side front compartment D1. Access to the regulator, contents gauge, and cylinder shut-off valve from the interior of the vehicle shall be by means of a hinged 0.250” thick Plexiglas door in the forward wall of the action area. This opening shall be trimmed with a black, ABS formed bezel to protect the technician’s hands and provide a finished opening. The compartment shall be vented through the exterior door with a vent cover. It shall be attached with stainless screws. The oxygen cylinder retention bracket shall be mounted to the rear of the cabinet. This retention bracket must meet or exceed AMD Standard 003, Oxygen Retention System. The finished oxygen system including regulator, contents gauge, hoses, outlets, and flow meter must meet or exceed the requirements of AMD Standard 015, Ambulance Main Oxygen System Test.		

	<b>Bidder Complies</b>	
<b>WIRING MODULE</b>	<b>Yes</b>	<b>No</b>
A cabinet forward of the rear facing technician’s seat shall house the main bank of electrical components. Adequate ventilation shall be supplied through two (2) polished metal, louvered vents located near the top and bottom of the door.		

	<b>Bidder Complies</b>	
<b>VACUUM FORMED UPHOLSTERY</b>	<b>Yes</b>	<b>No</b>
All seating and backrests (including the technician’s seat) in the patient compartment shall be constructed of 60 ounces vacuumed formed, seamless vinyl.		

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	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>ATTENDANT SEAT</b>		
A rear-facing, high-back attendant seat EVS 3PT Seat with Integral Child Safety Seat, mount on swivel base, centered. The seat base shall be swiveling type, with a sliding forward and backward adjustment.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>SPARE O2 BRACETS</b>		
Two (2) portable O2 tank (size "D") brackets provided and installed at or near the curbside entry door.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>IV HOLDERS</b>		
A minimum of two (2) ceiling mounted, recessed IV holders shall be supplied. They shall be located at the patient head area, one (1) over the squad bench and one (1) over the primary cot. The fold-down structure shall be a flexible rubber material to prevent injury to technicians moving in the patient compartment. When not in use, the rubber fold-down shall flip up for flush storage in the recessed ceiling housing. Each holder must have the capacity to hold two (2) bags of solution and have Velcro securing straps to prevent excessive movement of the bags during transport.		

	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
<b>ASSIST RAILS</b>		
One (1) 96" long, 1.25" diameter, smooth satin finished overhead grab rail shall be provided and securely fastened to the ceiling over the primary cot. The grab rails shall be fastened with bolts, washers, and nuts of the appropriate dimension, through the interior ceiling panel and through the 0.090" aluminum accessory plate welded into the roof structure. Assistant rails fastened with self-tapping machine screws are not acceptable. These grab rails must meet or exceed AMD Standard 008, Load Test for Ambulance Patient Compartment Grab Rail.		

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	<b>Bidder Complies</b>	
<b>RADIO EQUIPMENT CONNECTIONS</b>	<b>Yes</b>	<b>No</b>
Two (2) 10-gauge power and two (2) ground wires, two (2) RG58U coax cables, and two (2) PL 259 connectors shall be installed as “prewires” for the installation of radio communications equipment. Power, ground, and coax shall be terminated and bundled behind the passenger seat. There shall be an 18" service loop at the antenna base locations and a 36" service loop at the terminations in the cab. The PL259 connectors shall be shipped loose in the New Vehicle Owner’s Manual pocket. Bags of solution and have Velcro securing straps to prevent excessive movement of the bags during transport.		
<b>RADIO CABLE PULL WIRE</b>	<b>Yes</b>	<b>No</b>
A standard pull wire for radio installation shall be installed for easy installation of the radio in the cab of the ambulance and in the patient compartment in or near each action area.		
<b>ANTENNAS AND COAX CABLE</b>	<b>Yes</b>	<b>No</b>
Three (3) antennas will be provided and installed on the roof of the patient modular body. These antennas will have access points from inside of the patient compartment. Termination end of the coax cables will be determined by the Department.		
<b>FIRE EXTINGUISHERS</b>	<b>Yes</b>	<b>No</b>
Two (2) 5-pound rated ABC fire extinguishers with mounting brackets shall be furnished with the ambulance. These shall be shipped loose to allow the department to install in the desired locations.		
<b>TOUCH UP PAINT</b>	<b>Yes</b>	<b>No</b>

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<p>Touch-up paint shall be supplied with the completed unit. One (1) bottle of touch up paint shall be provided for each color of paint applied to the unit. The paint container shall include the paint number for future reference.</p>		
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	<b>Bidder Complies</b>	
<b>BODY PAINT COLOR</b>	<b>Yes</b>	<b>No</b>
Exterior paint and markings to match will be determined Raymond Fire Rescue.		

	<b>Bidder Complies</b>	
<b>MARKINGS</b>	<b>Yes</b>	<b>No</b>
The package shall comply with the Federal Ambulance Specification KKK-E. This Department determines markings of gold leaf lettering (no more than 120-140 characters). Raymond Fire Rescue Department Seal design (design provided by and locations to be determined by the Department).		

	<b>Bidder Complies</b>	
<b>OPERATORS MANUAL</b>	<b>Yes</b>	<b>No</b>
Two (2) vehicle owner's manuals (reference handbook) for the ambulance shall be provided in an 8 1/2" x 11" three-ring, hard cover, and loose-leaf binder. It shall contain copies of the chassis manufacturer's warranties and chassis owner's manual, copies of the ambulance manufacturer's warranties and New Vehicle Owner's Manual, component manufacturer's equipment information, installation, operating, service instructions, warranties, etc., and a complete set of wiring diagrams or schematics with circuits and components clearly and accurately labeled. Verification of the chassis pre-delivery inspection and a copy of the ambulance manufacturer's quality assurance form with results of the final vehicle release inspection shall be supplied upon the request of the department.		

	<b>Bidder Complies</b>	
<b>OEM SHOP AND SERVICE MANUALS</b>	<b>Yes</b>	<b>No</b>
Two (2) copies of the chassis manufacturer's OEM shop and service manuals shall be provided.		



**RAYMOND FIRE**  
**Town of Raymond, Maine**  
**AMBULANCE REPLACEMENT**

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

<b>OPERATING INSTRUCTIONS</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
To provide a safe working environment for emergency medical technicians to provide care of patients, this emergency vehicle must be operated in the safest manner possible. To provide proper training for all operators of this emergency vehicle, a professionally produced operations videotape should be included with the vehicle at the time of delivery. The videotape shall present all aspects of the operation of the vehicle including front and rear switch panel operation; daily checkout and maintenance procedures; location of and precautions about the main electrical panel and components. The authorized representative of the manufacturer shall present the videotape and review its contents with the potential operators of the vehicle and shall answer any questions regarding its optional features and safe and correct operation		

<b>ELECTRICAL SCHEMATICS CD</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
To provide for continued quality operations of the new ambulance and timely information regarding the vehicles electrical system, the manufacturer shall provide a compact disc with the basic electrical schematics for this emergency vehicle. This CD shall be delivered to this department as an item included in the New Vehicle Owner’s Manual.		

<b>OXYGEN</b>	<b>Bidder Complies</b>	
	<b>Yes</b>	<b>No</b>
The medical oxygen system shall be capable of storing and supplying a minimum of 3000 liters of oxygen. A suitable high-pressure hose shall be provided. The concealed oxygen supply hose shall be 0.250” ID, 0.50” OD nylon base with polyester fiber reinforcing. This electrically conductive hose shall be certified to 1,875 psi and have a 7,500-pound burst rating. The fittings shall be DISS and flare and be securely crimped to the barbed fittings by means of compressed copper sleeves. Oxygen supply hose shall be routed through the ceiling of the ambulance body and be secured with non-abrasive plastic “C” clamps. The entire oxygen system shall be subjected to a 155-psi leak test for 24 hours before installation of panels or covers that may obscure or hide the system components. After the vehicle is completed, a test as prescribed by AMD Standard 015 shall be conducted for a period of four (4) hours to ensure system integrity.		

# RAYMOND FIRE

## Town of Raymond, Maine

### AMBULANCE REPLACEMENT

Due April 3<sup>rd</sup>, 2024, at 2:30 p.m.

<p>The oxygen system shall have five (5) outlets, two (2) on each action area wall, one (1) on the ceiling of the patient compartment at the head end of the stretcher. The department shall specify the brand of quick connectors to be used. The rings shall be in the front of the compartment (tank will be provided by the department).</p>		
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	<b>Bidder Complies</b>	
<b>REGULATOR</b>	<b>Yes</b>	<b>No</b>
<p>A 50 psi, preset medical oxygen regulator shall be provided and installed on the supply end of the oxygen system hose. This regulator shall be certified by the equipment manufacturer to meet the appropriate FDA standards for medical oxygen flow meters.</p>		

	<b>Bidder Complies</b>	
<b>SUCTION AND ASPIRATION SYSTEM</b>	<b>Yes</b>	<b>No</b>
<p>An SSCOR suction aspirator system with 1200 ml disposable canister, injection molded plastic bracket and wall-mounted vacuum control shall be supplied and installed in the 1<sup>st</sup>. Action Area. An electric suction pump shall be supplied and installed in the top of the street-side D1 compartment and be covered with a protective metal grating. The self-sealing vacuum outlet shall be mounted on the action area wall next to the oxygen outlets. To prevent premature fatigue of the suction plumbing, the line from the vacuum pump to the wall outlet shall be .375" I.D. double braided neoprene hose. This suction aspirator system shall have the capability of attaining a vacuum of 300 millimeters of mercury within four (4) seconds. The vacuum control regulator panel shall be installed on the action area wall adjacent to the vacuum outlet and the oxygen outlets. This control panel shall contain a vacuum gauge calibrated on a dual scale, to read vacuum pressure in increments from 0 millimeters of Mercury or 0 inches of Mercury to 750 mmHg or 30 in Hg. A quarter-turn adjustment vacuum control and shut-off valve to adjust the vacuum levels or to discontinue suction immediately shall be integral to the control panel housing the vacuum gauge. The system as provided shall include one (1) 10-foot length of transparent non-kinking clear plastic tubing and an operator's manual. This suction aspirator system shall be certified by the equipment manufacturer to meet the appropriate FDA standards for medical suction aspirator systems.</p>		

	<b>Bidder Complies</b>	
<b>ADDITIONAL LOOSE ITEMS</b>	<b>Yes</b>	<b>No</b>
<p>NONE AT THIS TIME</p>		