

State of New Hampshire
Division of Procurement and Support Services
Bureau of Purchase and Property
25 Capitol Street, State House Annex
Concord, NH 03301-6398

Date: 6/2/16

Bid No.: 293-16

Date of Bid Opening: 6/13/16

Time of Bid Opening: 10:00 AM (EST)

YOU MAY EMAIL YOUR BID TO ALAN HOFMANN AT: EMAIL PRCHWEB@NH.GOV

BID INVITATION FOR: VEHICLE-CUSTOM AMBULANCE

[Insert name of signor] _____, on behalf of _____ [insert name of entity submitting bid (collectively referred to as "Vendor")] hereby submits an offer as contained in the written bid submitted herewith ("Bid") to the State of New Hampshire in response to BID # 293-16 at the price(s) quoted herein in complete accordance with the bid.

Vendor attests to the fact that:

1. The Vendor has reviewed and agreed to be bound by the Bid.
2. The Vendor has not altered any of the language or other provisions contained in the Bid document.
3. The Bid is effective for a period of 180 days from the Bid Opening date as indicated above.
4. The prices Vendor has quoted in the Bid were established without collusion with other vendors.
5. The Vendor has read and fully understands this Bid.
6. Further, in accordance with RSA 21-I:11-c, the undersigned Vendor certifies that neither the Vendor nor any of its subsidiaries, affiliates or principal officers (principal officers refers to individuals with management responsibility for the entity or association):
 - a. Has, within the past 2 years, been convicted of, or pleaded guilty to, a violation of RSA 356:2, RSA 356:4, or any state or federal law or county or municipal ordinance prohibiting specified bidding practices, or involving antitrust violations, which has not been annulled;
 - b. Has been prohibited, either permanently or temporarily, from participating in any public works project pursuant to RSA 638:20;
 - c. Has previously provided false, deceptive, or fraudulent information on a vendor code number application form, or any other document submitted to the state of New Hampshire, which information was not corrected as of the time of the filing a bid, proposal, or quotation;
 - d. Is currently debarred from performing work on any project of the federal government or the government of any state;
 - e. Has, within the past 2 years, failed to cure a default on any contract with the federal government or the government of any state;
 - f. Is presently subject to any order of the department of labor, the department of employment security, or any other state department, agency, board, or commission, finding that the applicant is not in compliance with the requirements of the laws or rules that the department, agency, board, or commission is charged with implementing;
 - g. Is presently subject to any sanction or penalty finally issued by the department of labor, the department of employment security, or any other state department, agency, board, or commission, which sanction or penalty has not been fully discharged or fulfilled;
 - h. Is currently serving a sentence or is subject to a continuing or unfulfilled penalty for any crime or violation noted in this section;
 - i. Has failed or neglected to advise the division of any conviction, plea of guilty, or finding relative to any crime or violation noted in this section, or of any debarment, within 30 days of such conviction, plea, finding, or debarment; or
 - j. Has been placed on the debarred parties list described in RSA 21-I:11-c within the past year.

This document must be signed by a person who is authorized to legally obligate the responding vendor. A signature on this document indicates that all State of New Hampshire terms and conditions are accepted by the responding vendor and that any and all other terms and conditions submitted by the responding vendor are null and void, even if such terms and conditions have terminology to the contrary. The responding vendor shall also be subject to State of New Hampshire terms and conditions as stated on the reverse of the purchase order.

Authorized Signor's Signature _____ Authorized Signor's Title _____

NOTARY PUBLIC/JUSTICE OF THE PEACE

COUNTY: _____ STATE: _____ ZIP: _____

On the ____ day of _____, 2016, personally appeared before me, the above named _____, in his/her capacity as authorized representative of _____, known to me or satisfactorily proven, and took oath that the foregoing is true and accurate to the best of his/her knowledge and belief.

In witness thereof, I hereunto set my hand and official seal.

_____ (Notary Public/Justice of the Peace)

My commission expires: _____ (Date)

Form P31-A

Unless specifically amended or deleted by the Division of Procurement and Support Services, the following General Terms and Conditions apply to this Bid and any resulting Purchase Order or Contract.

GENERAL CONDITIONS AND INSTRUCTIONS:

NATURE OF, AND ELIGIBILITY TO RESPOND. This bid invitation is submitted in accordance with Chapter 21-1, and rules promulgated thereunder, and constitutes a firm and binding offer. A bid may not be withdrawn unless permission is obtained from the Bureau of Purchase and Property.

Bids may be issued only by the Bureau of Purchase and Property and are not transferable.

SAMPLES AND DEMONSTRATIONS. When samples are required they must be submitted free of costs and will not be returned. Items left for demonstration or evaluation purposes shall be delivered and installed free of charge and shall be removed at no cost to the State. Demonstration units shall not be offered to the State as new equipment.

BIDS. Bids must be received at the Bureau of Purchase and Property before the date and time specified for the opening. Bids must be submitted on this bid form or exact copies and must be typed or clearly printed in ink. Corrections must be initialed. Bids are to be made less Federal Excise Tax and no charge for handling unless required by law.

SPECIFICATIONS. Vendors must submit on items as specified. Proposed changes must be submitted in writing and received at the Bureau of Purchase and Property at least five (5) business days prior to the bid opening, unless otherwise specified in the RFB timeline. Vendors shall be notified in writing if any changes to the specifications are made.

AWARD. The award will be made to the responsible Vendor submitting a conforming bid meeting specifications at the lowest cost unless other criteria are noted in the bid. Unless otherwise noted, the award may be made by individual items.

If there is a discrepancy between the unit price and the extension, the unit price will prevail.

When identical low bids are received the award will be made in accordance with the Administrative Rules.

Discounts will not be considered in making award but may be offered on the Invoice for earlier payment and will be applicable on the date of completion of delivery or receipt of Invoice, whichever is later. On orders specifying split deliveries, discounts will apply on the basis of each delivery or receipt of Invoice, whichever is later.

PATENT INFRINGEMENT. Any responding vendor who has reason to believe that any other responding vendor will violate a patent should such responding vendor be awarded the contract shall set forth in writing, prior to the date and time of opening, the grounds for his belief and a detailed description of the patent.

ASSIGNMENT PROVISION. The responding vendor hereby agrees to assign all causes of action that it may acquire under the antitrust laws of New Hampshire and the United States as the result of conspiracies, combinations, or contracts in restraint of trade which materially affect the price of goods or services obtained by the state under this contract if so requested by the State of New Hampshire.

FEDERAL FUNDS. This Division of Plant and Property Management, under RSA 21-1:14, VIII shall assure the continuation or granting of federal funds or other assistance not otherwise provided for by law by following the Federal Procurement Standards.

STATE'S OPTIONS: The Bureau of Purchase and Property reserves the right to reject or accept all or any part of any bid, to determine what constitutes a conforming bid, to award the bid solely as it deems to be in the best interest of the State, and to waive irregularities that it considers not material to the bid.

PUBLIC INFORMATION: The responding vendor hereby acknowledges that all information relating to this bid and any resulting order (Including but not limited to fees, contracts, agreements and prices) are subject to these laws of the State of New Hampshire regarding public information.

PERSONAL LIABILITY: The responding vendor agrees that in the preparation of this bid or the execution of any resulting contract or order, representatives of the State of New Hampshire shall incur no liability of any kind.

PROOF OF COMPLIANCE. The responding vendor may be required to supply proof of compliance with proposal specifications. When requested, the responding vendor must immediately supply the Bureau of Purchase and Property with certified test results or certificates of compliance. Where none are available, the State may require independent laboratory testing. All costs for such testing certified test results or certificate of compliance shall be the responsibility of the responding vendor.

FORM OF CONTRACT. The terms and conditions set forth in any additional Terms and Conditions by the Bureau of Purchase and Property are part of the bid and will apply to any contract awarded the responding vendor unless specific exceptions are taken and accepted and will prevail over any contrary provisions in Terms and Conditions submitted by the responding vendor.

CONTRACT TERMS AND CONDITIONS

1. The State of New Hampshire, acting through the Division of Procurement and Support Services, engages the firm or individual ("the Vendor") to perform the services and/or sale of goods, described in the attached State documents, if any, and the Vendor's bid or quotation, both of which are incorporated herein by reference.
2. **COMPLIANCE BY VENDOR WITH LAWS AND REGULATIONS.** In connection with the performance of this agreement, the Vendor shall comply with all statutes, laws, regulations, and orders of federal, state, county or municipal authorities which shall impose any obligation or duty upon the Vendor, including, but not limited to civil rights and equal opportunity laws.
3. **TERM.** The contract, and all obligations of the parties thereunder, shall become effective on a specified date and shall be completed in their entirety prior to a specified date. Any work undertaken by the Vendor prior to the effective date shall be at his sole risk and, in the event that the contract shall not become effective, the State shall be under no obligation to reimburse the Vendor for any such work.
4. **CONTRACT PRICE.** The contract price, a payment schedule and a maximum limitation of price shall be as specified by the bid invitation and the Vendor's bid. All payments shall be conditioned upon receipt, and approval by the State, of appropriate vouchers and upon satisfactory performance by the Vendor, as determined by the State. The payment by the State of the Contract Price shall constitute complete reimbursement to the Vendor for all expenses of any nature incurred by the Vendor in the performance by the Vendor and complete payment for the Services. The State shall have no other liability to the Vendor.
5. **DELIVERY.** If the vendor fails to furnish items and/or services in accordance with all requirements, including delivery, the state may re-purchase similar items from any other source without competitive bidding, and the original vendor may be liable to the state for any excess costs.
6. **INVOICING.** All invoices must be in triplicate showing Order Number, Unit and Extension Prices and discounts allowed. A separate invoice shall be submitted for each order. Unless otherwise noted on the invitation to bid or purchase order, payment will not be due until thirty (30) days after all services have been completed, or all items have been delivered, inspected and accepted or the invoice has been received at the agency business office, whichever is later.
7. **PERSONNEL.**
 - 7.1. The Vendor shall disclose in writing the names of all owners (5% or more), directors, officers, employees, agents or subcontractors who are also officials or employees of the State of New Hampshire. Any change in this information shall be reported in writing within fifteen (15) days of their occurrence.
 - 7.2. The person signing this agreement on behalf of the State, or his or her delegee ("Contracting Officer") shall be the State's representative for purposes of this agreement. In the event of any dispute concerning the interpretation of this agreement, the Contracting Officer's decision shall be final.
8. **EVENT OF DEFAULT; REMEDIES.**
 - 8.1. Any one or more of the following acts or omissions of the Vendor shall constitute an event of default hereunder ("Events of Default"):
 - 8.1.1. failure to deliver the goods or services satisfactorily or on schedule; or
 - 8.1.2. failure to submit any report required hereunder; or
 - 8.1.3. failure to perform any of the other covenants and conditions of this agreement.
 - 8.2. Upon the occurrence of any Event of Default, the State may take any one, or more, or all, of the following actions:
 - 8.2.1. give the Vendor a written notice specifying the Event of Default and requiring it to be remedied within, in the absence of a greater or lesser specification of time, thirty (30) days from the date of the notice; and if the Event of Default is not timely remedied, terminate this agreement, effective two (2) days after giving the Vendor notice of termination; and
 - 8.2.2. give the Vendor a written notice specifying the Event of Default and suspending all payments to be made under this agreement and ordering that the portion of the Contract Price, which would otherwise accrue to the Vendor during the period from the date of such notice until such time as the State determines that the Vendor has cured the Event of Default, shall never be paid to the Vendor; and
 - 8.2.3. set off against any other obligation the State may owe to the Vendor any damages the State suffers by reason of any Event of Default; and
 - 8.2.4. treat the agreement as breached and pursue any of its remedies at law or in equity, or both.
9. **WAIVER OF BREACH.** No failure by the State to enforce any provisions hereof after any Event of Default shall be deemed a waiver of its rights with regard to that Event, or any subsequent Event. No express failure of any Event of Default shall be deemed a waiver of any provision hereof. No such failure or waiver shall be deemed a waiver of the right of the State to enforce each and all of the provisions hereof upon any further or other default on the part of the Vendor.

10. VENDOR'S RELATION TO THE STATE. In the performance of this agreement the Vendor is in all respects an independent Vendor, and is neither an agent nor an employee of the State. Neither the Vendor nor any of its officers, employees, agents or members shall have authority to bind the State nor are they entitled to any of the benefits, workmen's compensation or emoluments provided by the State to its employees.

11. ASSIGNMENT AND SUBCONTRACTS. The Vendor shall not assign, or otherwise transfer any interest in this agreement without the prior written consent of the State. No work required by this contract shall be subcontracted without the prior written consent of the State. If a vendor is unable to complete delivery by the date specified, he must contact the using agency. However, the agency is not required to accept a delay to the original delivery date. All deliveries are subject to inspection and receiving procedure rules as established by the State of New Hampshire. Deliveries are not considered accepted until compliance with these rules has been established. State personnel signatures on shipping documents shall signify only the receipt of shipments. All deliveries shall be FOB Destination.

12. INDEMNIFICATION. The contractor shall defend, indemnify and hold harmless the State, its officers and employees, from and against any and all losses suffered by the State, its officers and employees, and any and all claims, liabilities or penalties asserted against the State, its officers and employees, by or on behalf of any person, on account of, based on, resulting from, arising out of (or which may be claimed to arise out of) the acts or omissions of the Vendor. Notwithstanding the foregoing, nothing herein contained shall be deemed to constitute a waiver of the sovereign immunity of the State, which immunity is hereby reserved to the State. This covenant shall survive the termination of this agreement.

12.1 PATENT PROTECTION. The seller agrees to indemnify and defend the State of New Hampshire from all claims and losses resulting from alleged and actual patent infringements and further agrees to hold the State of New Hampshire harmless from any liability arising under RSA 382-A:2-312(3). (Uniform Commercial Code).

13. TOXIC SUBSTANCES. In compliance with RSA 277-A known as the Workers Right to Know Act, the vendor shall provide Material Safety Data Sheets with the delivery of any and all products covered by said law.

14. NOTICE. Any notice by a party hereto to the other party shall be deemed to have been duly delivered or given at the time of mailing by certified mail, postage prepaid, in a United States Post Office addressed to the parties at the addresses given below.

15. AMENDMENT. This agreement may be amended, waived or discharged only by an instrument in writing signed by the parties hereto.

16. CONSTRUCTION OF AGREEMENT AND TERMS. This agreement shall be construed in accordance with the laws of the State of New Hampshire, and is binding upon and inures to the benefit of the parties and their respective successors and assigns.

17. ADDITIONAL PROVISIONS. The additional provisions (if any) have been set forth as Exhibit "A" hereto.

18. ENTIRE AGREEMENT. This agreement, which may be executed in a number of counterparts, each of which shall be deemed an original, constitutes the entire agreement and understanding between the parties, and supersedes all prior agreements and understandings relating hereto.

BID INVITATION FOR: VEHICLE - CUSTOM AMBULANCE

PURPOSE:

The purpose of this bid invitation is to establish a contract(s) in the form of a purchase order(s) for supplying the State of New Hampshire with the item(s) indicated in the "Offer" section of this bid invitation, in accordance with the requirements of this bid invitation and any resulting order. This will be a one-time order with delivery required to the location(s) indicated in the F.O.B. section of this bid invitation.

INSTRUCTIONS TO VENDOR:

Read the entire bid invitation prior to filling it out. Complete the pricing information in the "Offer" section (detailed information on how to fill out the pricing information can be found in the "Offer" section); complete the "Vendor Contact Information" section; and finally, fill out, sign, and notarize page 1 of the bid invitation.

BID SUBMITTAL:

All bids must be submitted on this form or an exact copy, must be typed or clearly printed in ink and must be received on or before the date and time specified on page 1 of this bid under "Bid closing". Interested parties may submit a bid to the State of New Hampshire Bureau of Purchase and Property by **email to PRCHWEB@NH.GOV**. All bids must be clearly marked with bid number, date due and purchasing agent's name.

IF YOU ARE EXPERIENCING DIFFICULTIES EMAILING YOUR BID OR YOU WISH TO VERIFY THAT YOUR BID RESPONSE HAS BEEN RECEIVED, PLEASE CALL (603) 271-2201 AND ASK A PURCHASING ASSISTANT FOR ASSISTANCE OR TO CHECK ON THE STATUS OF YOUR BID RESPONSE.

TIMELINE:

The timeline below is provided as a general guideline and is subject to change. Unless stated otherwise, consider the dates below a "no later than" date.

6/2/2016	Bid Solicitation distributed on or by
6/8/2016	LAST DAY FOR QUESTIONS, CLARIFICATIONS, AND/OR REQUESTED CHANGES TO BID
6/13/2016	10:00 (EST) AM Bid Opening
6/17/2016	Estimated Notification of Award to apparent low bidder.

GOVERNING TERMS AND CONDITIONS:

A responding bid that has been completed and signed by your representative will constitute your company's acceptance of all State of New Hampshire terms and conditions and will legally obligate your company to these terms and conditions.

A signed response further signifies that from the time the bid is published (bid solicitation date and time) until a contract is awarded, no bidder shall offer or give, directly or indirectly, any gift, expense reimbursement, or honorarium, as defined by RSA 15-B, to any elected official, public official, public employee, constitutional official, or family member of any such official or employee who will select, evaluate, or award the RFB.

Furthermore, a signed response signifies that any terms and/or conditions that may be or have been submitted by the Vendor are specifically null and void and are not a part of this bid invitation or any awarded purchase order, even if said terms and/or conditions contain language to the contrary.

PUBLIC DISCLOSURE OF BID SUBMISSIONS:

Generally, all bids and proposals (including all materials submitted in connection with them, such as attachments, exhibits and addenda) become public information upon the effective date of a resulting contract or purchase order. However, to the extent consistent with applicable state and federal laws and regulations, as determined by the State, including, but not limited to, RSA Chapter 91-A (the "Right-to-Know" Law), the State will attempt to maintain the confidentiality of portions of a bid that are clearly and properly marked by a Vendor as confidential.

Any and all information contained in or connected to a bid or proposal that a Vendor considers confidential must be clearly designated in a manner that draws attention to the designation. The State shall have no obligation to maintain the confidentiality of any portion of a bid, proposal or related material, which is not so marked. Marking an entire bid, proposal, attachment or sections thereof confidential without taking into consideration the public's right to know will neither be accepted nor honored by the State. Notwithstanding any provision of this RFP/RFB to the contrary, pricing will be subject to public disclosure upon RFB opening, regardless of whether or not marked as confidential. If a bid or proposal results in a purchase order or contract, whether or not subject to approval by the Governor and Executive Council, all material contained in, made part of, or submitted with the contract or purchase order shall be subject to public disclosure.

If a request is made to the State by any person or entity to view or receive copies of any portion of a bid or proposal, and if disclosure is not prohibited under RSA 21-I: 13-a, Vendors acknowledge and agree that the State may disclose any and all portions of the bid, proposal or related materials which is not marked as confidential. In the case of bids, proposals or related materials that contain portions marked confidential, the State will assess what information it believes is subject to release; notify the Vendor that the request has been made; indicate what, if any, portions of the bid, proposal or related material will not be released; and notify the Vendor of the date it plans to release the materials. The State is not obligated to comply with a Vendor's designation regarding confidentiality.

By submitting a bid or proposal, the Vendor agrees that unless it obtains and provides to the State, prior to the date specified in the notice described in the paragraph above, a court order valid and enforceable in the State of New Hampshire, at its sole expense, enjoining the release of the requested information, the State may release the information on the date specified in the notice without any liability to the Vendor.

Notwithstanding RSA 91-A:4, no information shall be available to the public, or to the members of the general court or its staff concerning specific responses to this bid invitation from the time this bid is published until the closing date for responses.

From the closing date of the bid until the award is made is considered "quiet time." Bidders may not discuss their bid or anything specifically pertaining to the bid with any State entity (other than personnel from the Bureau of Purchase and Property) including the requesting/customer agency(ies). If found in violation of this part, the bidder shall be found non-compliant and will no longer be allowed to proceed in the award process.

VENDOR CERTIFICATIONS:

All Vendors must be duly registered as a vendor authorized to conduct business in the State of New Hampshire.

- **STATE OF NEW HAMPSHIRE VENDOR APPLICATION:** Prior to bid award, Vendors must have a completed Vendor Application Package on file with the NH Bureau of Purchase and Property. See the following website for information on obtaining and filing the required forms (no fee: <http://DAS.NH.Gov/Purchasing>)

REQUEST FOR CHANGES AND/OR CLARIFICATION:

Any Questions must be submitted by an individual authorized to commit their organization to the Terms and Conditions of this bid. Submissions must clearly identify the bid Number, the Vendor's name and address and the name of the person submitting the question. Any questions, clarifications, and/or requested changes must be received in writing at the Bureau of Purchase and Property no later than 4:00 PM as listed in the timeline above. Questions shall not be submitted to anyone other than the Purchasing Agent or his/her representative. Bidders that submit questions verbally or in writing to any other State entity or State personnel shall be found in violation of this part and may be found non-compliant.

Questions must be submitted by E-mail to Alan Hofmann at the following address: alan.hofmann@nh.gov

ADDENDA:

In the event it becomes necessary to add to or revise any part of this bid prior to the scheduled submittal date, the NH Bureau of Purchase and Property will post on our web site any Addenda. Before your submission and periodically prior to the RFB closing, **check the site for any addenda** or other materials that may have been issued affecting the bid. The web site address is <http://das.nh.gov/Purchasing/vendorresources.asp>.

WARRANTY REQUIREMENTS:

As specified

BID PRICES:

Bid prices must be in US dollars and must include delivery and all other costs required by this bid invitation. Special charges, surcharges, or fuel charges of any kind (by whatever name) may not be added on at any time. Any and all charges **must be built into your bid price** at the time of the bid.

PAYMENT:

Payments shall be made via ACH. Use the following link to enroll with the State Treasury:
<http://www.nh.gov/treasury/Divisions/DocsForms/Tforms.htm?inc=P>

AWARD:

The award shall be made to the responsible Vendor meeting the criteria established in this RFB and providing the lowest cost in total. The State reserves the right to reject any or all bids or any part thereof and add/delete locations to the contract price. If an award is made it shall be, in the form of a State of New Hampshire Purchase Order.

BID RESULTS:

Bid results may be viewed when available, once the award has been made, on our web site only at: <http://das.nh.gov/purchasing>.

For Vendors wishing to attend the bid Opening: **Names of the Vendors submitting responses and pricing will be made public.**

TERMINATION:

The State of New Hampshire shall have the right to terminate the purchase contract at any time by giving the successful Vendor a thirty (30) day written notice.

REQUISITION NO.: 165039

RETURNED GOODS:

The successful Vendor must resolve all order and invoice discrepancies within five business days from notification. Products returned due to quality issues, duplicate shipments, over-shipments, etc. must be picked up by the successful Vendor within ten business days of notification with no restocking or freight charges, and must be replaced with specified products or the agency will be refunded/credited for the full purchase price. Unauthorized substitutions for any products are not allowed.

Standard stock products ordered in error by the State of New Hampshire must be returned for full credit within fifteen business days of receipt. Products must be in re-saleable condition (original container, unused) and there will be no restocking fee charged for these products. The using agency will be responsible for any freight charges to return these items to the successful Vendor.

SPECIFICATION COMPLIANCE:

Vendor's offer must meet or exceed the required specifications as written. The State of New Hampshire shall be the sole determining factor of what meets or exceeds the required specifications.

Unless otherwise specified by the Bureau of Purchase and Property in this bid invitation document, all products and equipment offered by the Vendor must be new (and of the current model year, if applicable); shall not be used, rebuilt, refurbished; shall not have been used as demonstration products and equipment, and shall not have been placed anywhere for evaluation purposes.

The manufacturer(s) and/or model(s) indicated in this bid are equivalent to the type and quality required. You may bid different make(s) and model(s); however, your offer must match or exceed the one(s) indicated and you must demonstrate to the satisfaction of the purchasing agency that they meet or exceed the minimum standards. Items that don't meet the minimum standards will not be accepted. Product literature and specifications may be enclosed.

IN SERVICE DATE:

The in service date of the vehicle (including the start of all warranties) shall be the date that the State of New Hampshire puts the vehicle in service ready to perform duty. Once the vehicle is delivered; there shall be time allowed to train. This time allowed to train along with time needed to make any repairs once the training process is completed shall not be considered as in service time. Once the training is completed and if no repairs are needed then the in service date shall be established.

CONSTRUCTION/DELIVERY TIME

The State of New Hampshire is requesting a maximum construction/delivery period of not more than 240 days from the State's issuance of a purchase order. Vendors are requested to comment on the bid cover letter as to a schedule. **If delivery cannot be met, Vendor must notify the Bureau of Purchase and Property before 4:00PM on 6/8/16.**

DELIVERY:

The ambulance shall be delivered under its own power to assure adequate break-in while under warranty. It shall first be transported to the local service facility, where final inspection and preparation will be performed, including mounting of related equipment. Training shall take place at the NH Fire Academy in Concord, NH and any repairs made following training prior to the final in service date being established.

OFFER:

Successful Vendor hereby offers to sell the required items to the State of New Hampshire at the following price(s):

<u>QTY</u>	<u>UNIT</u>	<u>DESCRIPTION</u>	<u>DELIVERED UNIT COST</u>
1	EACH	NEW , VEHICLE- CUSTOM AMBULANCE AS PER THE FOLLOWING MINIMUM N. H. FIRE ACADEMY SPECIFICATIONS	\$ _____

<u>QTY</u>	<u>UNIT</u>	<u>DESCRIPTION</u>	<u>DELIVERED UNIT COST</u>
1	EACH	DEMONSTRATOR , VEHICLE- CUSTOM AMBULANCE WITH LESS THAN 750 HOURS AND LESS THAN 15,000 MILES AND AS PER THE ATTACHED MINIMUM NH FIRE ACADEMY SPECIFICATIONS	\$ _____

Delivery Time: DEMONSTRATOR MODEL

Successful Vendor agrees to complete delivery of items within 90 days after receipt of Purchase Order or sooner. Prices offered must include all products and delivery costs.

**OPTIONS: ADD ONS: OPTIONS MAY BE CHOSEN IF FUNDS ALLOW
OPTION PRICING WILL NOT BE CONSIDERED FOR THE AWARD**

POWER COT: \$ _____ ADD

POWER COT LOADING SYSTEM: \$ _____ ADD

STAIR CHAIR AND MOUNTING HARDWARE: \$ _____ ADD

ATTENDANT SEAT

Attendant seat mounted in center position
Guardian Attendant Seat, with built in infant/child seat capable of securing a person from 5lbs to 85lbs, Swivel. \$ _____ ADD

DIAGNOSTIC SOFTWARE

Diagnostic software for the chassis, engine, ABS/ATC/RSC/ESC, transmission and multiplex system. This shall include all of the cables/adapters needed. This shall include 1 year of manufacturer updates and online support. \$ _____ ADD

CUSTOM BRANDING ON APPARATUS

Custom branding will be allowed on sides of apparatus. Branding may include manufacturer and/or dealer or major components, such as Power Cot, etc. Size of branding, placement on apparatus, and design and layout are to be mutually agreed upon. The State of New Hampshire reserves the right to reject any custom branding. \$ _____ DEDUCT

VENDOR CONTACT INFORMATION:

The following information is for this office to be able to contact a person knowledgeable of your bid response, and who can answer questions regarding it:

_____	_____	_____
Contact Person	Telephone Number	Toll Free Telephone Number
_____	_____	_____
Fax Number	E-mail Address	Company Website

Vendor Company Name		

Vendor Address		

NH Fire Academy Specification For Ambulance

INTENT OF SPECIFICATIONS

It is the intention of the State of New Hampshire to purchase a new Custom Style Ambulance Vehicle that complies with all federal and state requirements and that it is inspected and complies with the latest adopted KKK-A-1822F including all change notices current as of the date of this bid, along with the Federal Motor Vehicle Safety Standards (FMVSS) rules and regulations. Any reference to NFPA 1917 shall mean the 2016 edition specifications. The vehicle shall be 100% free from any deficiencies.

The State of New Hampshire shall require the vehicle including the chassis to be constructed in North America.

MINIMUM REQUIRED STANDARDS:

The highest degree of quality, both in the materials and in the building processes, is required for the emergency medical vehicle being proposed. At a minimum the manufacturer being proposed must meet all current mandated design standards in effect at the date of the proposal submission, including the latest adopted KKK-A-1822F standard, including all change notices current as of the date of this bid, and current Federal Motor Vehicle Safety Standards (FMVSS).

ENGINEERING SUPPORT:

Due to the complexity of the design of the vehicle, proposals will be accepted only from manufacturers that utilize well-defined engineering techniques. Computer Aided Design (CAD) drawings of both the cab and overall layout of the body, including internal layout and external compartments, will be mandatory.

At a minimum these drawings shall include all exterior sides (4 views), floor plan of patient care area, all internal views of each wall and ceiling (5 views), cab, and an aerial view of the vehicle. All options and elements required within these specifications shall be depicted on the prints.

The drawings, as submitted, shall accurately depict the exact vehicle that is being proposed.

SPECIFICATION DESIGN:

The following specifications were created by the State of New Hampshire to meet the new Ambulance Vehicle. It is not the intention of the State of New Hampshire to exclude any manufacturer from submitting a bid on these specifications.

The specifications including any required equipment or features are identified by brand name. The bidder shall note that the use of brand names within this document is meant to describe a required level of quality or performance. The bidder may substitute equipment or features provided that the substitutions meet the intent of the specification. **The bidder shall note, however, that substitute components shall be included in the list of exceptions and shall only be accepted if the required component is not available through the manufacturer. Exceptions must be requested to the Bureau of Purchase and Property before 4:00PM on 5/11/16.**

TYPE OF BIDS TO BE SUBMITTED:

In the event that the bidder represents more than one vehicle manufacturer meeting the manufacturer requirements outlined herein, multiple separate and distinct bids may be submitted.

The State of New Hampshire is seeking quality equipment.

STATEMENT OF COMPLIANCE

Included in the bid proposal shall be a statement that the vehicle proposed shall and will meet full compliance of KKK-A-1822F and all change notices as of the date of this request as well as any additional requirements. This statement must be signed by the dealership rep, manufacturer's rep, and an engineer from the manufacturer. Any exceptions to the full compliance with this bid of KKK-A-1822F and any change notice to date shall be clearly described in the statement of compliance and listed on the exceptions page.

The State of New Hampshire reserves the right to disqualify any proposal not meeting these specifications.

CHASSIS SPECIFICATIONS

GENERAL CHASSIS SPECIFICATIONS

The truck shall be a new or demonstrator 4X2 chassis. The chassis shall meet the requirements for KKK-A-1822F and all change notices as of the date of this request.

CHASSIS GVWR

The apparatus shall be a Type I or III chassis that meets KKK-A-1822F and all change notices as of the date of this request.

It will be designed with due consideration to distribution of load between the front and rear axles, so that all specified equipment, including filled patient compartment, a full complement of personnel will be carried without injury to the apparatus.

The GAWR and GVWR of the chassis shall be adequate to carry the fully equipped apparatus including five unequipped personnel weight, and miscellaneous equipment. It shall be the responsibility of the purchaser to provide the contractor with the weight of equipment to be carried.

The unequipped personnel weight shall be calculated at 175 lbs. per person times the maximum number of persons to ride on the apparatus. The height of the fully loaded vehicle's center of gravity shall not exceed the chassis manufacturer's maximum limit.

The front to rear weight distribution of the fully loaded vehicle shall be within the limits set by the chassis manufacturer.

GVWR certification shall be included with the bid.

OVERALL DIMENSIONS

Overall MINIMUM Vehicle Dimensions:

Length: 275" Width: 99" Height: 107"

Exterior Modular Body Dimensions:

Length: 176" Width: 97" Height: 89"

Interior Modular Body Dimensions:

Length: 160" Width: 90 3/4" Height: 75"

TOW HOOKS

Four (4) black painted steel tow eyes shall be installed below the front bumper and at the rear of the vehicle body and attached directly to the frame members. The inner and outer edges of the tow eyes shall.

BRAKE SYSTEM

Brakes shall be 4-wheel disc and a foot operated parking brake.

ANTI-LOCK BRAKE SYSTEM

The vehicle shall be equipped with an anti-lock braking system.

AUTOMATIC TRACTION CONTROL

An anti-slip feature shall be included with the ABS.

AVSC CONTROL

The vehicle shall be equipped with the most current Automatic Vehicle Stability Control (AVSC) system.

ENGINE

The engine shall have a proven track record during ambulance use and with the following criteria:

350 HP minimum turbo diesel OR 305 HP minimum gasoline PLEASE SPECIFY _____

Standard equipment on the engine shall include the following:

- o Long life antifreeze rated to -34 degrees F with coolant filter
- o Engine block heater

EXHAUST SYSTEM

The exhaust tailpipe shall be on the left side of the vehicle and not terminate within 12” of fuel fill, O2 storage, and shall not extend more than 1” beyond the side of the body.

The stainless steel exhaust system shall be LH mounted and exit in front of the rear axle. The exhaust system shall have a Neiderman System installed in the vehicle to include: proper exhaust tip, magnetic plate mounted on the side of the body, and control module installed in the vehicle. Exact location of the control module TBD at pre-build meeting.

INFORMATION DATA PLATE

There shall be a data plate containing the following information:

1. All fluid types and quantities
2. All grease types/grades
3. All filter types (OEM filter numbers and quantities of each)
4. Belt numbers
5. Air pressure for front and rear tires
6. Wheel nut torque
7. Engine/Transmission model and serial numbers
8. Brake Pad& Rotor OEM Part Numbers
9. Vehicle Identification Number
10. Paint codes
11. Exact location of the plate TBD at pre-build meeting.

HIGH IDLE/CRUISE CONTROL

An electric elevated/high idle switch and cruise control shall be provided with on/off functionality. The cruise control shall be OEM equipment. High idle switches shall be installed, at the cab instrument panel or other OEM location, for activation/deactivation. The high idle shall be operational only when the parking brake is on and the transmission is in neutral or park.

TRANSMISSION

An OEM automatic transmission shall be supplied with overdrive.

TRANSMISSION COOLER

External transmission oil cooler shall be provided.

STEERING

Standard power steering shall be furnished and the steering column shall be capable of tilting.

TIRES AND WHEELS

Front tires shall be manufacturer recommended for mission defined.

MUD FLAPS

Mud flaps shall be installed behind the rear wheels of the truck. The mounting hardware shall be stainless (no exceptions)(no logos).

CAB INSULATION

The cab shall be insulated to provide the quietest cab possible. The cab shall have no more than 80 decibels at any time during vehicle operation. Sound levels will be checked during the final inspection at the factory prior to delivery to the dealer.

SEAT BELT WARNING DEVICE

A seat belt warning device shall be installed in each designated seating position. It shall work in conjunction with the OEM chassis seat belt warning indicator. It shall indicate if an occupant is not belted. The warning device shall consist of an audible and visual warning device that can be heard and seen by the driver and occupants in the patient compartment. The warning shall be activated anytime the seat is occupied without the seat belt in the fastened position, the parking brake is released, and the transmission is not in neutral or park.

"DO NOT MOVE" WARNING LIGHT WITH AUDIBLE ALARM

A red flashing warning light and integral audible alarm will be functionally located in the cab and can be seen and heard by the driver – to be illuminated by ignition switch in the run position, parking brake not engaged and warning of any of the following conditions:

- 1) Door open.
- 2) Permanently attached device open or deployed.

This light will be activated through the parking brake switch to signal when the parking brake is released. This light will be labeled "DO NOT MOVE APPARATUS WHEN LIGHT IS ON".

CAB CLIMATE CONTROL

Cab shall have OEM heater and air conditioner in the cab.

DAYTIME RUNNING LIGHTS

The chassis shall include daytime running lights.

MIRRORS

Driver and passenger side mirrors shall be OEM installed. Mirrors used by the driver shall be adjustable from the driver's position.

FRONT BUMPER

A chrome plated steel bumper shall be attached to the front of the frame. Front tow hooks may be recessed into the bumper, provided that adequate room is provided in the cutouts. Upper and lower mounting plate hardware for the license plate shall be included on this bumper.

REAR BUMPER

A rear bumper with lift up step shall be attached to the frame. Rubber dock bumpers shall be bolted to the bumper ends.

VEHICLE DATA RECORDER (VDR)

Apparatus shall be equipped with an NFPA compliant VDR Class1 or Weldon V-Mux "Vehicle Data Recorder and Seat Belt Warning System".

The VDR data shall be downloadable by USB cable to a computer using either Microsoft™ or Apple™ Operating Systems using Class 1 or Weldon V-Mux and O.E.M. supplied reporting software.

It shall be capable of recording the following:

Vehicle speed mph

- Acceleration (from speedometer) mph/sec
- Deceleration (from speedometer) mph/sec
- Engine speed rpm
- Engine throttle position % of full throttle
- Anti-lock braking system event On/off
- Seat occupied status Occupied: Yes/No by position
- Seat belt status Buckled: Yes/No by position
- Master optical warning device switch On/off
- Time 24-hour clock
- Date Year/month/day

Onboard data collected from the VDR shall be able to be uploaded to a computer and shall be able to be retrieved via password into the monitoring software owned by the purchaser. The VDR shall be capable of recording the data shown in the following order at least once per second.

- Maximum vehicle speed mph
- Maximum acceleration (from speedometer) mph/sec
- Maximum deceleration (from speedometer) mph/sec
- Maximum engine speed rpm
- Maximum engine throttle position % of full throttle
- Anti-lock braking system event On/off
- Seat occupied with seat belt unbuckled Yes/no by position at 30 sec into minute
- Master optical warning device switch On/off at 30 sec into minute
- Time 24-hour clock
- Date Year/month/day

CAB CONSOLE

A map box with (1) map pocket and (2) dividers and cup holders shall be provided.

BATTERY CHARGER

A combination minimum 30 amp remote battery charger with internal battery saver shall be provided. A display bar graph, indicating the state of charge, shall be located next to shoreline plug-in. An indicator when shore line power is being supplied. The battery charger shall be wired to the 120-volt shoreline to activate automatically when power is connected.

MASTER BATTERY SWITCH

A master battery switch, to activate the battery system, shall be provided inside the cab within easy reach of the driver. An indicator light shall be provided on the instrument panel to notify the driver of the status of the battery system.

JUMPER STUDS

One (1) set of battery jumper studs with plastic color-coded covers shall be installed in an accessible spot. This shall location allow enough room for easy jumper cable access. Jumper stud covers shall be provided. A tag shall be provided for positive/negative terminals. Exact location TBD at pre-construction meeting.

ALTERNATOR

A single 225 amp or greater alternator shall be supplied to power the requirements of the vehicle.

POWER AND GROUND STUDS

Three (3) power studs shall be provided in the electrical component compartment for two-way radio equipment. These shall be directly wired to the chassis batteries; grounding to the frame will not be accepted. The batteries shall be wired so that the ground feed and the positive feed to the radios shall be connected at opposite ends of the battery bank. This will allow the entire bank to serve as a filter.

The wiring for these studs shall follow the section on EMI/RFI Protection. The studs shall consist of:

Radio Mounted Area:

Stud #1 shall be 12-volt 100-amp fused, power

Stud #2 shall be 12-volt 100-amp fused, ground.

Stud #3 shall be 12-volt 20-amp, controlled by ignition switch.

All studs shall have a protective covers to prevent possible arcing from servicing and shall be marked as to amperage and feed/ground.

Preference is to mount the radio behind the driver and place (2) remote radio heads, one in the cab and the other in the patient compartment. Exact locations TBD at pre-construction meeting.

SWITCHES/ SWITCH PANELS

Due to the amount of switches needed to run this truck all switches shall be grouped together as to function. IE: warning lights, ground lights, step lights, scene lights, etc. All functions shall be controlled by the multiplex command centers, unless the centers are not located in a particular area that would require a switch. HVAC functions to be controlled by multiplex command center.

The switch panel for the cab will have the following:

Voltmeter, Analog, indicating 8 to 18 volt, lighted

Low Voltage Alarm & Indicator

Battery On indicator light

Warning Light, Whelen Red LED, (1) overhead cab by driver indicating when there is a door open

Warning Light, Whelen Amber LED, (1) overhead cab by driver indicating when there is a compartment open

Warning Indicator, audible alarm with door/compartment open

Warning Indicator, audible with parking brake engaged

Back-up alarm, with resetting cancel switch

Load Manager/Sequencer

Dome light master switch

ELECTRICAL

Power Door Lock Concealed Override Switch, front grille area

Anti-theft device, ignition security system

Bluetooth capable pairing of cell phones

AMBULANCE BODY SPECIFICATION

EXTERIOR SPECIFICATIONS

EXTERIOR DOORS, AMBULANCE

All entrance doors to the vehicle cab and patient compartment shall be power locking and operated by cab OEM door lock switches. Keyless entry fob (2) shall be provided.

EXTERIOR COMPARTMENT LAYOUT

Exterior compartments of the vehicle shall be designated starting at the front compartment on each side.

The drivers side shall be designated Compartment A and the first curb side cabinet shall be Compartment D. Dimensions of the exterior compartments shall be wall to wall measurements.

Compartment dimensions shall be at minimum:

"A" Left Front -20w x 83h x 21d -(w/Oxygen window); compartment door check Past 90 degrees

"B" Left Side 1/2 High -30w x 39h x 20d (May be adjusted if left squad bench is selected)

"C" Left Rear, 3/4 High -31w x 36h x 20d (Oversized width); (1) adjustable shelf, compartment door check Past 90 degrees

"D" Right Front, In-Out Access -20w x 55h x 33d above floor -20d below floor; compartment door check Past 90 degrees

"E" Right Behind Rear Tire -13w x 22h x 17d; compartment door check Past 90 degrees

"F" Right Rear Corner -24w x 80h x 21d

EXTERIOR COMPARTMENTS

Exterior compartments will have the following characteristics:

Compartment Door Panels shall be aluminum diamond plate

Stainless Steel Door Sills and Patient Compartment entrance door

Compartments shall be vented to the exterior of the vehicles

Floors and shelves of compartments shall be covered with black Dri-Dek

Stepwell mat shall be Turtle Tile Non-skid pad (removable)

Permanent shelf, left front compartment "A" with light below, located above the O2 window

SECURING DEVICES FOR EQUIPMENT

The following equipment shall be supplied:

Oxygen Bracket to secure main oxygen tank located in Compartment A

(2) Adjustable Shelves, for compartment "B"

(1) Adjustable Shelf, for compartment "C"

Full Height Divider w/(2) Adjustable Shelves, Compartment "E"

Divider to be 12" off front wall w/10" shelves.

Bulbous mounts for (2) backboards Comp. "E"

REAR STEP BUMPER

Lift-up Rear Step

Rear Dock Bumpers, Bolted to Bumper Ends

ALUMINUM DIAMOND PLATE ACCESSORIES

Accessories shall be installed:

C-channel rub rails, offset from the bottom of the box

Running boards, non-slip diamond plate with stone guards

Rear diamond plate panel below patient compartment entrance doors

Diamond plate corner guards, each corner of the ambulance body

EXTERIOR TRIM

License plate holder shall be a cast and polished holder, installed on the left side of body with LED Lighting

BODY WINDOWS

All windows noted below shall have a minimum of 25% to maximum of 35% tint:

Window, Side Door (18"W x 22"H), Sliding

Windows, Rear Doors, (16"W x 22"H), Fixed

Window, Right Body, (45"W x 15"H), Fixed

INTERIOR SPECIFICATIONS

CONSTRUCTION AND INSULATION

The ambulance body walls, floor, ceiling, and doors shall be insulated to provide the quietest and most efficient climate control of the patient compartment as possible. All compartment doors shall be a or product.

INTERIOR CABINET DOORS

All cabinet doors, tinted no greater than 31%

Handles on sliding doors shall be full height of the door

Stainless SouthCo Latches shall be used on hinged doors

FRONT BULKHEAD

The area of the front bulkhead shall have the following arrangement:

Electrical Power Distribution Cabinet shall have an access panel with a flush locking trigger latch.

If Type III vehicle is bid, it shall include a laminated wood door with sliding 12" w x 12" h window and standard, wood cabinet construction, the door will open into a recessed pocket.

RIGHT FRONT UPPER STORAGE

Storage cabinet shall have the following characteristics:

Lined with ribbed rubber mat

(1) adjustable shelf

1/2" doors, tinted

RIGHT FRONT LOWER IN/OUT STORAGE

Storage cabinet shall have the following characteristics:

Shall be an inside/outside cabinet

Shall have (2) adjustable shelves with 2" turned down edges facing the outside access door

Shelves to be lined with ribbed rubber mat

Cabinet shall have 1/2" doors, tinted

RIGHT SIDE INTERIOR

Interior wall shall have the following characteristics:

There shall be a Squad Bench to accommodate two (2) personnel and under seat storage.

Tip out trash bin at head of bench into aisle and marked "Trash Bin".

Tip out sharps disposal into aisle (8 qt.) marked "Sharps Disposal".

Recessed storage for "D" oxygen bottles (2), head of squad bench, recessed into step well, with securing brackets.

Dry erase writing surface, right rear wall: The right rear wall adjacent to Compartment "F" shall be laminated in high gloss white laminate.

Upper right side forward cabinet shall be at 45 degrees and shall house the switch pod for lighting and climate control and a radio head.

Overhead cabinet shall be 9"h, with a lift up restock door for (3) glove box holder. The remainder of the cabinet shall have sliding doors and shall include (1) adjustable shelf over the Squad Bench.

Lower storage unit Head of Squad Bench with laminated counter top with 1" retaining edge for three (3) drawer storage unit. Unit is to be installed in custom cabinet at head of squad bench, drawers facing squad bench and all drawers utilize locking Stainless Steel latches.

Lower storage unit Rear of Squad Bench to be approximately 22"d with laminated counter top with 1" retaining edge. Cabinet will have (1) adjustable shelf, 1/2" door facing cot and hinged to open toward Squad Bench for access to supplies.

RIGHT REAR CABINET

Right Rear access to Compartment "F" shelves with a minimum of 36" high hinged door to open toward Squad Bench.

LIFE SUPPORT STATION AND UPPER FRONT LEFT STORAGE

The LSS shall house a lower storage cabinet, access to Compartment "A", one (1) oxygen port, and suction controls as described, and upper storage cabinet with 45 degree corner facing the rear:

Laminated counter with 1" retaining edge.

Lower storage cabinet with hinged door.

Access to Compartment "A" with in/out door, single hinged on street side for access to compartment.

Upper storage cabinet with sliding doors, and a 45 degree side toward rear of patient compartment and one (1) adjustable shelf.

O2 gauge mounted on 45 degree side of upper cabinet

Suction controls-LED light to illuminate Life Support Station

LEFT SIDE INTERIOR

Overhead cabinet shall be 9"h, with a lift up restock door for (3) glove box holder, and sliding doors on the remainder of the compartment and shall include (1) adjustable shelf over the Squad Bench.

Left rear upper cabinet shall have one (1) adjustable shelf and have sliding doors, and be as large as possible in relation to left upper middle cabinet above seat. Trash bin, tip out, below left side bench, located rear of wheel well.

There shall be either a Squad Bench to accommodate two (2) or three (3) people OR a single CPR seat, both with under seat storage. If CPR seat option there shall be a shelf to the rear of the vehicle with a 1" lip.

HEAD BUMPERS

The following head bumpers shall be installed:

- (1) Side Door Head Bumper
- (1) Rear Door Head Bumper

GRAB RAILS

The following grab rails shall be installed:

- Grab rail, 72", Stainless Steele, over right squad bench
- Grab rail, 72", Stainless Steele over left squad bench
- Grab rail, 18", at rear entrance doors, (2)
- Grab rail, 45 degree, side entrance door, (1)
- Grab handle, spring loaded, rear entrance door (2)
- Grab rail, IV Pump mounting, dealer to mount on delivery

SEAT BELTS

- Seat belt, right squad bench, Qty (2)lap belts
- Seat belt, attendant seat, Qty (1)
- Seat belt, left side squad bench, Qty (3)

IV HOLDER

- Rubber I.V. holder, dual, recessed, over cot
- Rubber I.V. holder, dual, recessed, over squad bench
- Rubber I.V. holder, dual, recessed, in the wire raceway at the head of the cot
- (2) I.V. chrome hooks to be included and mounted by dealer

INTERIOR COLOR AND UPHOLSTERY

- Ceiling, White
- Upper Laminate - White
- Lower Laminate – Dark Grey / Blue
- Upholstery – Grey

FLOORING

Flooring will be without seams and rolled up side walls 3"

MISCELLANEOUS INTERIOR

- Provide a "No Smoking Sign"
- Sign, "Occupants Must be Seated and Belted When Ambulance Is in Motion" in patient compartment and seen by all occupants.

OXYGEN AND SUCTION

The following oxygen and suction equipment shall be furnished. Oxygen equipment shall be Amico unless otherwise specified:

- Oxygen outlet, dual, on 45 degree surface next to middle cabinet in Life Support Station
- Oxygen outlet, Oxy Outlet, in wall above right Squad Bench, next to Auxiliary Switch Panel.
- Oxygen Outlet, (1) recessed in ceiling raceway, above head of cot. This will be a constant flow selector valve.
- Oxygen Solenoid with manual override & switch.
- Vacuum Outlet with diamond adapter in Life Support Station.
- Thomas suction pump, electric, with switch in Life Support Station.
- Suction collection bottle, disposable SSCOR type with regulator, in Life Support Station, left of oxygen ports.
- Oxygen Gauge showing main tank pressure, digital.

Oxygen bottle holder, Steel, for "M" cylinder and the bracket shall be located on the aft wall of Compartment "A", with the ability to view the tank gauge through the in/out cabinet of the Life Support Station.

Oxygen regulator for the "M" tank.

Oxygen Cylinder wrench, wall mounted in Compartment "A".

CLIMATE CONTROL

An air conditioning system shall be provided that is capable of lowering the interior temperature from 95° to 78° at a minimum of 40% relative humidity within 30 minutes.

A heating system shall be provided that is capable of raising the interior temperature from 32°F to 68°F within 30 minutes.

Compliance of the air condition and heating system of a substantially similar ambulance shall be validated.

The following shall be provided:

Heat and air conditioning shall be ducted through the roof of the patient compartment with adjustable vent openings.

Digital thermostat to control the temperature.

Switch in Cab On-Off Control for heater and air conditioning unit.

Ventilation shall have (2) speed settings and cowling shall be a casted product.

EQUIPMENT

The following equipment shall be supplied:

(1) Fire Extinguishers, ABC, 5lb with mounting brackets, dealer to mount on delivery.

LED flashlights (2) with vehicle mounted chargers.

Triangle safety reflectors (3).

Generic cardiac monitor mounting bracket.

ELECTRICAL

HEADLIGHT FLASHER

Headlight flasher with 115 flashes per minute.

SIREN AND SPEAKERS

One (1) NFPA compliant siren system shall be furnished. Siren speaker to be flush mounted in front bumper. Exact location TBD at pre-build meeting.

Siren-Horn Switch to be provided.

FRONT BODY WARNING LIGHTS

The following lights shall be Whelen and provided with chrome flanges. Use clear lens package for 900 series 9x7 lights:

Upper Grille Light - Whelen 500 LED - (2) Red.

Lower Grille Light - Whelen 500 LED - (2) White.

Whelen (2) 7x3 Super - LED, Red – mounted on fenders.

Whelen (2) 600, Directionals - LED, Amber Arrows mounted facing front under red outer emergency light.

Whelen 9x7, 900 Sup-LED, Red, Front - (Loc: F1, outer light passengers side).

Whelen 9x7, 900 Split Sup-LED, Red/Amber, Front - (Loc: F2).

Whelen 9x7, 900 Sup-LED, Red, Front - (Loc: F3).

Whelen 9x7, 900 Split Sup-LED, Red/White, Front - (Loc: F4).

Whelen 9x7, 900 Sup-LED, Red, Front - (Loc: F5).

Whelen 9x7, 900 Split Sup-LED, Red/Amber, Front - (Loc: F6).

Whelen 9x7, 900 Sup-LED, Red, Front - (Loc: F7).

PRIMARY SIDE LIGHT PACKAGE – CLEAR LENSES

The following lights shall be Whelen and provided with chrome flanges. Use clear lens package for 900 series 9x7 lights:

Whelen 9x7, 900 Sup-LED, Red, Left Side - (Loc: LS1, front corner left side).

Whelen 9x7, 900 Sup-LED, Red, Left Side - (Loc: LS4, rear corner left side).

Whelen 9x7, 900 Sup-LED, Red, Right Side - (Loc: RS1, front corner right side).

Whelen 9x7, 900 Sup-LED, Red, Right Side - (Loc: RS4, rear corner right side).

Whelen 700 series Super-LED, Red, with Chrome flange over rear wheel.

Whelen 700 series Super-LED, Red, with Chrome flange over rear wheel.

REAR BODY LIGHTS

The following lights shall be Whelen and provided with chrome flanges. Use clear lens package for 900 series 9x7 lights. There shall be:

Whelen 9x7, 900 Split Super LED, Blue on top and Blue on bottom (Loc: R1, upper left).

Whelen 9x7, 900 Super LED Scene Light, White - (Loc: R2).

Whelen 9x7, 900 Split Super LED, Red/Amber - (Loc: R3, center).

Whelen 9x7, 900 Super LED Scene Light, White - (Loc: R4).

Whelen 9x7, 900 Split Super LED, Red/Red - (Loc: R5, upper right).

Whelen (2) 9x7, 900 Super LED, Red and Amber split, Red to also act as break lights, mounted near window level. Rear Red LED shall flash alternatively to upper emergency lights and have brake light priority function.

Stop/Tail lights shall be (2) Whelen 600 Series LED with clear lens and chrome flanges.

Back-up lights shall be (2) Whelen 600 Series with chrome flanges.

Directionals shall be (2) Whelen 600 LED with clear lens and amber arrows and chrome flanges.

MISCELLEANOUS LED BODY MOUNTED LIGHTS

Marker/Clearance lights shall be LED on front and rear and (2) sides.

Lower side marker lights flash with directionals, (2) each side.

Running board lights (2) 4" LED recessed.

FLOOD LIGHTS

(2) Whelen 9x7, Super LED Scene Lights, Left side - (Loc: LS2 aft of emergency light, LS3 forward of Compartment "C").

(2) Whelen 9x7, Super LED Scene Lights, Right side - (Loc:RS2 aft of side door, RS3 forward of Compartment "F").

Right Side Scene Lights on with side door opening & switch in console.

Left and Right Side Scene Lights can be operated with On-Off switch in console.

Rear Scene Lights on with rear door opening or switch in console.

Right Side and rear door scene light can be canceled with switch in console.

Left and Right and Rear Flood Lights to come on with transmission in reverse.

INTERIOR LIGHTS

(10) Dome Lights, Whelen LED six diode lights with Hi-Lo.

Whelen LED strip light, 3 level intensity in Life Support Station.

COMPARTMENT LIGHTING

Whelen 4" LED round or 6 diode strip LED light, shall be provided in each enclosed exterior compartment. Each compartment shall be adequately illuminated. Compartments that have shelves shall be illuminated above and below shelf. Using only one light shall not be permitted in compartments that have shelves.

Opening the compartment door shall automatically turn compartment lighting on and shall turn on a warning light in cab when the parking brake is not applied. Switches shall be weather resistant.

AUXILIARY INTERIOR LIGHTING

Stepwell Light, LED Located at Side Entrance Door.

MEDICAL OUTLETS

12 volt Medical Outlet, Power Point, Located: Life Support Station.

12 volt Medical Outlet, Power Point, Located: Right Front In/out cabinet.

12 volt Medical Outlet, Power Point, Located: Right Rear Cabinet approximately 4" above countertop.

12 volt Medical Outlet, Power Point, Located: Compartment "C", 36" above floor, front bulkhead.

ANTENNA/RADIO

One (1) digital radio (VHF hi-band) and remote heads shall be provided by the State of New Hampshire. The radio shall meet the following criteria:

The radio shall have remote heads (A4 style) located on the cab dash area, exact location TBD with speaker. Exact location for main unit for the radio TBD.

Mount antenna at factory to eliminate pulling apart the interior of the cab after vehicle leaves the factory

Mount antennas and run wiring from body roof to (2) locations, (1) Dash and (1) Right side upper cabinet. Antenna bases mounted on body roof, (2).

Radio Power Lead, right upper 45 degree cabinet.

Radio Power Lead 30 Amp, 10 gauge, cab console.

Radio Power Lead w/40 Amp Fuse, 8 gauge, behind driver seat.

MISCELLEANOUS 12V ELECTRICAL

(2) Radio Speakers from automotive radio in ceiling of patient compartment and volume control to compartment speakers mounted in life support station.

Medical Isolator, Shottky type

ELECTRICAL 115 VOLT AC

The following electrical equipment shall be supplied:

A super Auto-Eject 20 Amp shoreline shall be provided and mounted on the left side. Exact location on the cab TBD at pre-construction meeting.

Power Distribution Box, 115v, with 20 amp Circuit Breaker.

Engine Block Heater connected to the Shoreline.

An On-off Switch 115v to control of block heater.

Hospital Grade Lighted GFCI Outlet, Location: Life Support Station.

Hospital Grade Lighted Outlet, Location: Right Front In/out compartment.

Hospital Grade Lighted Outlet, Location: Right Rear Cabinet approximately 4" above countertop.

Hospital Grade Lighted Outlet, Location: Exterior Left Cabinet "C", 36" above floor, front bulkhead.

BATTERY CHARGER

Battery Charger, 30 amp.

INVERTER

Inverter 1000W minimum, with shoreline transfer.

Provide on-off switch in Life Support Station and Auxiliary Pod Right Squad Bench

TECHNICAL RADIO INSTALLATION

Technical Radio Installation- Provided by Dealer

Radio installation to be provided by dealer, at the dealer's facility. All radios will be supplied by the end user.

The multiplex system shall serve as electronic load management (ELM) system that monitors the vehicles 12-volt electrical system, automatically reduces the electrical load in the event of a low voltage condition, and automatically restores the shed electrical loads when the low volt-age condition expires. This ensures the integrity of the electrical system. The system shall monitor the vehicle's voltage while at the scene

(parking brake applied). The system shall have the following features:

- System voltage monitoring.
 - Load Managing shall not start for 30 seconds after engine start up.
 - Priority levels can be set for individual outputs.
 - A warning light sequencer shall be provided that automatically turns the emergency lights on and off in a preset sequence.
 - The sequencer shall be wired in conjunction with the emergency master light switch.
 - When the switch is activated the lights shall be turned on in sequence one by one at 1/2-second intervals thereby protecting the alternator from power surges. Sequenced light switch LED's shall flash while waiting for activation.
 - When turned off, the same process shall deactivate the warning lights in sequence to allow a gradual decrease in alternator output, rather than dumping the load.
 - The system shall provide visual and audible warning when the system voltage is below or above optimum levels. The alarm shall activate if the system falls below 11.8 VDC for more than two (2) minutes.
 - The system shall be programmed with a light/alarm test which operates all lights and alarms on the vehicle to test for functionality.
 - If the parking brake is not fully set the system shall flash a red light in the cab and read out on the Command Master Display if the following conditions are met:
 - Any passenger or equipment compartment door is open
 - Phone modem and phone jack located in the cab to allow remote programing/diagnosis by the manufacturer or dealer.
- The programming setup shall be electronically sent to NH Fire Academy for approval before programming the system. Addresses and setups to be reviewed by NH Fire Academy at this time.

PAINT & GRAPHICS

PRIMARY COLOR

The primary color of the vehicle can be white or red or a combination. The color striping of the vehicle will depend on the primary color.

TOUCH-UP PAINT

One (1) pint of each exterior color paint for touch-up purposes will be supplied when the apparatus is delivered to the end user.

UNDERCOATING

Factory installed undercoating on the entire chassis and body shall be applied. The intent of the undercoating is to prevent environmental effects of corrosion on the cab and body.

VINYL GRAPHICS

A "Star of Life," of not less than 32" in blue, die cut style (may be without the white Staff of Aesculapius), shall be provided on the ambulance rooftop.

REFLECTIVE STRIPING

Red and yellow chevron reflective style safety striping shall be installed on 100% of the rear of the apparatus. These stripes shall be 6" wide.

An 11" wide reflective stripe shall be placed around the vehicle, excluding the rear. Exact location is

TBD at pre-build conference. This will run along the body and be in a “Z” pattern on compartment “D” door finishing at the front wheel well.

A 2” reflective trim shall border the wide stripe.

Reflective White Tape Stripe, 3/4" Outline, on interior of exterior compartment doors.

Reflective White Tape Stripe on the interior pan of all exterior compartment doors.

FINALIZATION & DETAILING

Prior to delivery of the vehicle, the interior and exterior be cleaned and detailed. The finalization process detailing will include installation of required labels, checking fluid levels, sealing and caulking required areas of the cab and body, rust proofing, paint touch-up, etc.

REPORTS/DIAGRAMS/MANUALS/TESTS

MANUALS, SERVICE

Two (2) operator/service manuals containing **all** parts, diagrams, schematics, operation and service information on all components of this specification shall be provided with the completed unit. Two (2) electronic manuals shall be provided on a Compact Disc/USB Drive (Windows compatible) with the completed unit. The manual shall be specifically for the model being purchased. It shall not be a generic manual for a multitude of different chassis.

CIRCUIT PROTECTION AND CONTROL DIAGRAM

Schematics and diagrams shall be provided for all systems provided on the apparatus to include all electrical, chassis, and other systems. **Only as built schematics and drawings will be accepted.**

AMP DRAW REPORT

The bidder shall provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

The manufacturer of the apparatus shall provide the following:

- Documentation of the electrical system performance tests.
- A written load analysis, which shall include the following:
 - The nameplate rating of the alternator.
 - The alternator rating under the conditions specified per:
- NFPA 1917.
 - The minimum continuous load of each component that is specified per:
- NFPA 1917.
 - Additional loads that, when added to the minimum continuous load, determine the total connected load.
 - Each individual intermittent load.

ACCEPTANCE TEST

An acceptance test shall be completed prior to delivery. This test shall incorporate all aspects of the vehicle to include vehicle operation and all supplied components.

MANUFACTURER:

To simplify warranty coverage and to assure a consistent level of quality throughout the vehicle, a manufacturer is desired that manufactures the major components for the apparatus (excluding the chassis).

The State of New Hampshire understands that manufacturers may purchase some elements, such as switches, boards, etc. with which to manufacture a system.

The bidder shall be able to perform warranty repairs on any component that is supplied/manufactured by the bidder.

This requirement is addressed elsewhere within this specification where the specific defined items are located.

Component manufacturer (by company name):

Chassis: _____

Modular Body: _____

Electrical Wiring System: _____

WARRANTY:

The bid shall include all warranties that are required in the following detailed specification. All warranties must have specific time duration and shall define warranties on specific components. The minimum acceptable warranty periods are noted at the end of the specifications under warranty page.

In the blank lines the bidder shall note the terms of the warranties that apply to the manufacturer being proposed. List any prorations or exclusions for each warranty. If more space is needed then the bidder may attach with the bid a page titled: "Warranty Proration or Exclusion" and further explanation can be completed on that page.

STRUCTUREAL INTEGRITY WARRANTY

The structural integrity of the body shall be guaranteed for the life of the unit, as long as the original purchaser shall own it.

ENGINE WARRANTY

The engine shall have a minimum of a **five (5) year warranty** to include parts and labor (maintenance components such as belts, hoses, filters are excluded).

TRANSMISSION WARRANTY

The transmission shall have a minimum of a **five (5) year warranty** covering 100% parts labor and towing.

CHASSIS WARRANTY

The chassis shall be supplied with the following minimum warranty coverage (unless longer term is expressed in other sections of this spec): **basic vehicle limited warranty of 24 months/100,000 miles; major components warranty of 60 months/300,000 miles; cab structure perforation, and corrosion warranty of 60 months/60,000 miles.**

BODY WARRANTY

The bidder, shall warrant that the apparatus body manufactured by the bidder (the "body"), under normal use and with normal maintenance, will remain free from structural defects for a period of a minimum of **five (5) years** from the date that the motor vehicle was first placed in service.

WARRANTY - PAINT AND CORROSION

The cab and body exterior paint finish shall be warranted against blistering, peeling, bubbling, corrosion, lack of adhesion or any other manufacturing or material defect for a minimum period of **five (5) years**.

Paint shall be covered 100% for **at least five (5) years**. Environmental effects shall not void the warranty. A copy of the manufacturer's warranty shall be included with the bid.

The bidder, shall warrant that the apparatus body manufactured by the bidder (the "body"), under normal use and with normal maintenance, will remain free from corrosion defects for a **period of five (5) years** from the date that the motor vehicle was first placed in service. A body shall be considered to have "corrosion defects" if it is found by the bidder to have perforation caused by corrosion under normal use and with normal maintenance.

UNDERCOAT WARRANTY

The undercoating shall carry a minimum of a minimum of a **five (5) year** unlimited mileage warranty against defects in material and workmanship.

LAMINATION WARRANTY

The manufacturer shall provide a minimum of a **three (3) year** warranty against defects in material and workmanship with the graphics process. A copy of the manufacturer's warranty shall be included with the bid.

ELECTRICAL WARRANTY

The electrical system shall be warranted for the **life of the unit or 100,000 miles**.

For verification of the completed warranty terms stated above the bidder must include printed manufacturer’s warranty certificates that meet or exceed the minimum required periods stated above.

The State of New Hampshire will not permit a warranty to be pro-rated and shall be transferable for the duration of the warranty term. All warranties shall be from the manufacturer and not the distributor or service center. No changes or modifications to a warranty shall be considered by the State of New Hampshire.

In the event a warranty repair requires the vehicle to return to the factory; dealer will be responsible to the cost incurred for one (1) State of New Hampshire representative to perform an inspection at the factory prior to the vehicle being returned from repairs. Airline travel shall originate from Manchester-Boston Airport if so needed.

SERVICE AVAILABILITY:

The State of New Hampshire shall require a general service center to be within a **125 mile** radius of 98 Smokey Bear Boulevard, Concord, NH 03305.

A service facility within a radius as described will be required. Personnel performing the service shall be trained by the manufacturer and a letter from the manufacture listing the service centers level of factory training shall be submitted with the bid. The State of New Hampshire may consider a firm that provides on-site repair/maintenance services to the State of New Hampshire.

Radius from Concord, NH: _____

Facility name: _____

Address: _____

City: _____ State: _____

Contact: _____

Phone #: 1-(____)-____-_____

Training Description: _____

Road Service Capability Yes _____ No _____

List field repair capability: _____
