

The Procurement Division of Knox County, Tennessee will receive sealed bids for the provision of a **Wildland Fire Apparatus** as specified herein. Bids must be received by **2:00 p.m.** on **March 27, 2025**. Late bids will neither be considered nor returned.

Deliver Bids To:

**Bid Number 3638
Knox County Procurement Division
Suite 100
1000 North Central Street
Knoxville, Tennessee 37917**

The Bid Envelope must show the Company Name, Bid Number, Bid Name & Bid Opening Date.

SECTION I GENERAL TERMS AND CONDITIONS

1.1 ADDITIONAL INFORMATION: Knox County wants requests for additional information routed to Ben Sharbel, CPPO, CPPB, Supervisor of Property Development and Asset Management, at 865.215.5765. Questions may be emailed to ben.sharbel@knoxcounty.org. If you have not heard from the Buyer in a reasonable amount of time, please call for further assistance. Information about the Knox County Procurement Division and current solicitations may be obtained on the internet at www.knoxcounty.org/procurement.

1.2 ACCEPTANCE: Vendors shall hold their price firm and subject to acceptance by Knox County for a period of ninety (90) business days from the date of the bid opening, unless otherwise indicated in their bid.

1.3 ALTERNATIVE BIDS: Knox County will not accept alternate bids (those not equal to specifications) unless authorized by the Invitation for Bid.

1.4 AUDIT HOTLINE: Knox County has established an Audit Hotline to report potential fraud and waste. To report potential fraud, waste or abuse, file a report online by accessing <http://www.knoxcounty.org/hotline/index.php>.

Vendors are hereby cautioned that this Audit Hotline does not replace the Award Protest Procedures found in Section VI, Item M of the Knox County Procurement Regulations.

1.5 AWARD: Award will be made to the most responsive, responsible bidder(s) meeting specifications which presents the product or service that is in the best interest of Knox County. Knox County reserves the right to award this bid on an all-or-none basis. Knox County also reserves the right to not award this bid. The evaluation criteria are listed herein

1.6 BID DELIVERY: Knox County requires bidders, when hand delivering bids, to time and date stamp the envelope before depositing it in the bid box. The time clock in the Procurement Division shall become the official record of time. Knox County will not be responsible for any lost or misdirected mail sent by common carrier, nor will Knox County be responsible for bids delivered to addresses other than the delivery address specified at the top of this solicitation.

Solicitations must be in a sealed envelope/box prior to entering the Procurement Division office. Procurement Division personnel are not allowed to see the submittal nor assist in placing documents in an envelope/box. Additionally, the Procurement Division is not responsible for providing materials (e.g.: envelopes, boxes, tape) for submittals.

1.7 BIDS REQUESTED ON BRANDS OR EQUAL: Unit price bids are requested on products that equal or exceed the quality and performance of the brands and model numbers listed. References to brand names, trade names, model numbers or other descriptions particular to specific brand products are made to establish a required level of quality and functional capabilities and are not intended to exclude other products of that level. Comparable products of other manufacturers will be considered if proof of comparability is contained in the bid. Or Equal does not mean the manufacturing process, but rather that the item will perform in the manner needed by the County.

It shall be the responsibility of the bidders, including bidders whose product is referenced; to furnish with the bid such specifications, catalog pages, brochures or other data as will provide an adequate basis for determining the quality and functional capabilities of the product offered. Failure to provide this data may be considered valid justification for rejection of bid.

- 1.8 BUSINESS OUTREACH PROGRAM:** Knox County has established a Business Outreach Program which has the responsibility of increasing opportunity for small, minority and women owned businesses. This is being accomplished through community education programs, policy edification, active recruitment of interested businesses and process re-engineering.

Knox County is committed to ensuring full and equitable participation for all businesses. Knox County welcomes submittals from those disadvantaged businesses that have an interest in providing goods and/or services listed herein. In addition, Knox County strongly encourages the inclusion of disadvantaged businesses by non-disadvantaged Contractors who may wish to partner or subcontract portions of this agreement in order to accomplish the successful delivery of goods and/or services.

If you are a disadvantaged business and would like additional information about our Business Outreach Program, please contact:

Diane Woods, CPPB
Administrator of Business Outreach
Knox County Procurement Division
Telephone: 865.215.5760
Email: diane.woods@knoxcounty.org

- 1.9 CONFLICT OF INTEREST:** Vendors must have read and complied with the "Non-Conflict of Interest" statement provided in the vendor registration process prior to the opening of this solicitation.
- 1.10 COPIES:** Knox County requires that bids be submitted as one (1) marked original and one (1) exact copy. No copies are required with an electronic bid response.
- 1.11 DECLARATIVE STATEMENTS:** Any statement or words (e.g.: must, shall, will) are declarative statements and the vendor must comply with the condition. Failure to comply with any such condition will result in the bid being considered non-responsive and disqualified.
- 1.12 DELIVERY:** Knox County requires that vendors deliver all products "Free on Board" to final destination.
- 1.13 DESCRIPTIVE LITERATURE:** Vendors are to clearly identify the manufacturer and the specifications to which they are submitting. Vendors must provide descriptive literature with their bid.
- 1.14 ELECTRONIC TRANSMISSION OF BIDS:** Knox County's Procurement Division will accept, and strongly encourages, electronically transmitted bids through the County's online Procurement system. Email and facsimile submission are strictly prohibited. Knox County shall not be responsible for technical difficulties experienced by vendors trying to register or submit their bid electronically less than twenty-four (24) hours prior to the bid opening time.
- 1.15 HOW TO DO BUSINESS:** Knox County utilizes a web-based Procurement software system, "KnoxBuys". The system provides our clients (vendors, county departments and the citizens of Knox County) with a more enhanced and end-user friendly means of accessing our services. The system allows for on-line vendor registration and maintenance, electronic receipt of purchase orders, on-line retrieval and submittal of quotes, bids and proposals for our vendor-clients and on-line requisitioning and receiving for our county departments. In order for the County to maximize its investment and minimize the cost associated with office operations we need your help. When doing business with Knox County we are urging you to please go to our website www.knoxcounty.org/procurement, register as a vendor in our on-line Procurement system, "KnoxBuys" if you have not done so and whenever possible to conduct your business with the County through this site. If you have any questions, please contact the Procurement Division Representative listed in Subsection 1.1 of this document.

- 1.16 INCURRED COSTS:** Knox County will not be responsible for any costs incurred by the bidder in the preparation of their bid.
- 1.17 NEW MATERIAL:** Unless specified otherwise in the bid package, the Contractor must provide new supplies. New, as used in this clause, means previously unused materials. Material includes but is not limited to, raw material, parts, items, components and end products. Contractor submission of other than new materials may be cause for the rejection of their bid. **For the purpose of this bid, used vehicles will not be considered.**
- 1.18 NON-COLLUSION:** Bidders, by submitting a signed bid, certify that the accompanying bid is not the result of, or affected by, any unlawful act of collusion with any other person or company engaged in the same line of business or commerce, or any other fraudulent act punishable under Tennessee or United States law.
- 1.19 PAYMENT METHOD:** Knox County utilizes two (2) methods of placing order for products and/or services. The first is the use of Purchase Orders. These Purchase Orders will be issued from the Knox County Procurement Division via the method selected by the vendor during registration. The Purchase Order will detail the quantity, specific item(s) and the contracted price for each item.
- The second method is the use of the Knox County Credit Card (VISA). Orders placed with the card will list the same information as the Purchase Order. Vendors will be given the card information and approval to process the transaction by the requesting department. Vendors must indicate in their bid response if the vendor will accept Knox County's Credit Card (VISA) as a form of payment. Bidders are prohibited to charge Knox County any type of merchant fee from their financial institution to accept this type of payment.
- 1.20 PROCESSING TIME FOR PAYMENT:** Vendors are advised that a minimum of thirty (30) days is required to process invoices for payment.
- 1.21 PROOF OF FINANCIAL AND BUSINESS CAPABILITY:** Vendors must, upon request, furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these specifications. Knox County will make the final determination as to the vendor's ability.
- 1.22 RECYCLING:** Knox County, in its continuing efforts to lessen the amount of landfill waste and to further recycling efforts, request that bids being submitted on paper shall:
- 1.22.1** Be submitted on recycled paper;
 - 1.22.2** Not include pages of unnecessary advertising;
 - 1.22.3** Be made on both sides of each sheet of paper.
- 1.23 RESTRICTIVE OR AMBIGUOUS SPECIFICATIONS:** It is the responsibility of the prospective bidder to review the entire Invitation for Bids (IFB) packet and to notify the Procurement Division if the specifications are formulated in a manner that would unnecessarily restrict competition. Any such protest or question regarding the specifications or bidding procedures must be received in the Procurement Division no later than **4:30 p.m. local time on March 13, 2025**. These requirements also apply to specifications that are ambiguous.
- 1.24 SIGNING OF BIDS:** **In order to be considered, all bids must be signed. Please sign the original in blue ink.** By signing the bid document, the vendor acknowledges and accepts the terms and conditions stated in the bid document. When submitting electronically, the submission of the bid constitutes the acceptance of all terms and conditions and will legally bind the vendor to the County's request for goods/services and the vendor's subsequent response.
- 1.25 TAXES:** Knox County purchases are not subject to taxation. Tax exemption certificates will be provided upon request.
- 1.26 TITLE VI OF THE 1964 CIVIL RIGHTS ACT:** "Nondiscrimination in Federally Assisted Programs"—"No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance." 42 U.S.C. Section 2000 et seq. It is the policy of Knox County Government that all its services and activities be administered in conformance with the requirements of Title VI.

- 1.27 **UNFORESEEN CIRCUMSTANCES:** During periods of closure due to unforeseen circumstances in Knox County or closures at the direction of the Knox County Mayor, the Procurement Division will enact the following procedures in regard to solicitations and closures:
- If the Mayor closes the Administrative offices prior to the time set for solicitation opening of any business day, all solicitations due that same day will be moved to the next operational business day.
 - Other unforeseen circumstances shall be at the sole discretion of the Procurement Director.
 - Knox County shall not be liable for any commercial carrier's decision regarding deliveries during any unforeseen circumstances.
- 1.28 **USE OF BID FORMS:** Vendors must complete the bid forms contained in the bid package. Failure to complete the bid forms may result in bid rejection.
- 1.29 **VENDOR DEFAULT:** Knox County reserves the right, in case of vendor default, to procure the articles or services from other sources and hold the defaulting vendor responsible for any excess costs occasioned thereby. Should vendor default be due to a failure to perform or because of a request for a price increase, Knox County reserves the right to remove the vendor from the County's bidder's list for twenty-four (24) months.
- 1.30 **VENDOR REGISTRATION:** Prior to the opening of this bid, ***ALL BIDDERS MUST*** be registered with the Procurement Division. Please register on-line at our website at www.knoxcounty.org/procurement and click on "On-line Vendor Registration." Vendors must be registered with the Procurement Division **prior** to submitting their bid. Knox County shall not be responsible for technical difficulties experienced by vendors trying to register less than twenty-four (24) hours prior to the bid opening time.
- 1.31 **WAIVING OF INFORMALITIES:** Knox County reserves the right to waive minor informalities or technicalities when it is in the best interest of Knox County.

SECTION II OBLIGATIONS, RIGHTS AND REMEDIES

These terms and conditions shall be part of the Contract. Knox County reserves the right to negotiate other terms and conditions it deems appropriate and necessary under the circumstances to protect the public's trust.

- 2.1 **ALTERATIONS OR AMENDMENTS:** No alterations, amendments, changes, modifications or additions to this Contract shall be binding on Knox County without the prior written approval of the County.
- 2.2 **APPROPRIATION:** In the event no funds are appropriated by Knox County for the goods or services in any fiscal year, or insufficient funds exist to purchase the goods or services, then the Contract shall expire upon the expenditure of previously appropriated funds or the end of the current fiscal year, whichever occurs first, with no further obligations owed to or by either party.
- 2.3 **ASSIGNMENT:** Contractor shall not assign or subcontract this agreement, its obligations or rights hereunder to any party, company, partnership, incorporation or person without the prior written specific consent of Knox County.
- 2.4 **BOOKS AND RECORDS:** Contractor shall maintain all books, documents, accounting records and other evidence pertaining to the goods and services provided under this Contract and make such materials available at its offices at all reasonable times during the Contract period and for five (5) years from the date of the final payment under this agreement for inspection by County or by any other governmental entity or agency participating in the funding of this agreement, or any authorized agents thereof; copies of said records to be furnished if requested. Such records shall not include those books, documents and accounting records that represent the Contractor's costs of manufacturing, acquiring or delivering the products and services governed by this agreement.
- 2.5 **CHILD LABOR:** Contractor agrees that no products or services will be provided or performed under this Contract that have been manufactured or assembled by child labor.

- 2.6 COMPLIANCE WITH ALL LAWS:** Contractor is assumed to be familiar with and agrees to observe and comply with all Federal, State, and local laws, statutes, ordinances, and regulations in any manner affecting the provision of goods and/or services, and all instructions and prohibitive orders issued regarding this work and shall obtain all necessary permits.
- 2.7 DEFAULT:** If Contractor fails to perform or comply with any provision of this Contract or the terms or conditions of any documents referenced and made a part hereof, Knox County may terminate this Contract, in whole or in part, and may consider such failure or noncompliance a breach of Contract. Knox County expressly retains all its rights and remedies provided by law in case of such breach; and no action by Knox County shall constitute a waiver of any such rights or remedies. In the event of termination for default, Knox County reserves the right to purchase its requirements elsewhere, with or without competitive bidding.
- 2.8 GOVERNING LAW; VENUE:** This agreement shall be exclusively construed, governed, and controlled by the Laws of the State of Tennessee without regard to principles of law, including conflicts of law, of any other jurisdiction, territory, country, and/or province. Any dispute arising out of or relating to this agreement shall exclusively be brought in the Chancery Court or the Circuit Court of Knox County, Tennessee. Each party consents to personal jurisdiction thereto and waives any defenses based on personal jurisdiction, venue, and inconvenient forum.
- 2.9 INCORPORATION:** All specifications, drawings, technical information, Invitation for Bids, Bid, Award and similar items referred to or attached or which are the basis for this Contract are deemed incorporated by reference as if set out fully herein.
- 2.10 INDEMNIFICATION/HOLD HARMLESS:** Contractor shall indemnify, defend, save and hold harmless Knox County, its officers, agents and employees from all suits, claims, actions or damages of any nature brought because of, arising out of, or due to breach of the agreement by Contractor, its subcontractors, suppliers, agents, or employees or due to any negligent act or occurrence or any omission or commission of Contractor, its subcontractors, suppliers, agents or employees.
- 2.11 INDEPENDENT CONTRACTOR:** Contractor shall acknowledge that it and its employees serve as independent contractors and that Knox County shall not be responsible for any payment, insurance or incurred liability.
- 2.12 INSPECTION AND ACCEPTANCE:** Warranty periods shall not commence until Knox County inspects and formally accepts the goods and/or services. The terms, conditions and timing of acceptance shall be determined by Knox County. Knox County reserves the right to reject any or all items or services not in conformance with applicable specifications, and Contractor assumes the costs associated with such nonconformance. Acceptance of goods or services does not constitute a waiver of latent or hidden defects or defects not readily detectable by a reasonable person under the circumstances.
- 2.13 IRAN DIVESTMENT ACT:** By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to Tennessee Code Annotated § 12-12-106.
- 2.14 LIMITATIONS OF LIABILITY:** In no event shall Knox County be liable for any indirect, incidental, consequential, special or exemplary damages or lost profits, even if Knox County has been advised of the possibility of such damages.
- 2.15 NO BOYCOTT OF ISRAEL:** Pursuant to Tennessee Code Annotated Title 12, Chapter 4, Part 1, by submission of a response to this solicitation, each proposer and each person signing on behalf of any proposer certifies, and in the case of a joint response each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each proposer is not currently engaged in, and will not for the duration of the contract engage in, a boycott of Israel.

2.16 NON-DISCRIMINATION AND NON-CONFLICT STATEMENT: Contractor agrees that no person on the grounds of handicap, age, race, color, religion, sex, national origin, or any trait or characteristic found to be an illegal consideration, shall be excluded from participation in, or be denied benefits of, or be otherwise subjected to discrimination in the performance of this agreement, or in the employment practices of vendor. Contractor shall upon request show proof of such non-discrimination, and shall post in conspicuous places available to all employees and applicants notices of non-discrimination. Contractor covenants that it complies with the Fair Wage and Hour Laws, the National Labor Relations Act, and other federal and state employment laws as applicable. Contractor covenants that it does not engage in any illegal employment practices.

Contractor covenants that it has no public or private interest, and shall not acquire directly or indirectly any interest which would conflict, in any manner, with the provision of its goods or performance of its services. Contractor warrants that no part of the total contract amount provided herein shall be paid directly or indirectly to any officer or employee of Knox County as wages, compensation, or gifts in exchange for acting as officer, agent, employee, subcontractor or consultant to Contractor in connection with any goods provided or work contemplated or performed relative to the agreement.

2.17 ORDER OF PRECEDENCE: In the event of inconsistent or conflicting provision of this Contract and referenced documents, the following descending order of precedence shall prevail: (1) Item Description, (2) Invitation for Bid, (3) Bid, (4) Award, (5) Special Terms and Conditions, (6) General Terms and Conditions, (7) Specifications, (8) Drawings.

2.18 REMEDIES: Knox County shall have all rights and remedies afforded under the U.C.C. and Tennessee law in Contract and in tort, including but not limited to rejection of goods, rescission, and right of set-off, refund, incidental, consequential and compensatory damages and reasonable attorney's fees.

2.19 RIGHT TO INSPECT: Knox County reserves the right to make periodic inspections of the manner and means the service is performed or the goods are supplied and warehoused.

2.20 SEVERABILITY: If any provision of this Contract is declared illegal, void or unenforceable, the remaining provisions shall not be affected but shall remain in force and in effect.

2.21 TAX COMPLIANCE: Pursuant to Resolution R-07-1-903 passed by the Commission of Knox County, Tennessee, Contractor hereby acknowledges, by submission of its bid or proposal and signature, it is current in its respective Federal, State, County, and City taxes of whatever kind or nature, and is not delinquent in any way. Delinquent status must be disclosed or risk debarment by the Knox County Procurement Division.

2.22 TERMINATION: County may terminate this agreement with or without cause at any time by giving thirty (30) calendar days' notice. In the event of termination by either party, fees due for services satisfactorily performed or goods accepted prior to the termination date shall be paid.

2.23 WARRANTY: Contractor warrants to Knox County that all items delivered, and all services rendered shall conform to the specifications, drawings, bid and/or other descriptions furnished and/or incorporated by reference, and will be fit for the particular purpose purchased of merchantable quality, good workmanship, and free from defects. Contractor extends to Knox County all warranties allowed under the U.C.C. Contractor shall provide copies of warranties to the County upon request. Return of merchandise not meeting warranties shall be at Contractor's expense.

SECTION III SPECIAL TERMS AND CONDITIONS

3.1 INTENT: The intent of these specifications is to convey to prospective vendors the general type and quality of Wildland Fire Apparatus as desired by Knox County. Award will be based on Best Value. Best Value means more than low cost. It includes initial cost, service quality and other factors detailed herein.

3.2 ACCEPTANCE: Bidders are advised that the payment of an invoice does not necessarily constitute as an acceptance of products/services that are provided. Acceptance requires a specific written action by Knox County so stating.

- 3.3 AMERICAN RESCUE PLAN ACT (ARPA) FUNDS:** The Wildland Fire Apparatus is being funded in whole or in part by federal award number 21.027 awarded to Knox County by the U.S. Department of the Treasury. Any publications produced with funds from an Agreement that results from this Bid must display the federal award information. Additionally, all vendors must certify that they comply with ARPA Project Requirements & Guidelines, **Exhibit C**. The ARPA Project Requirements & Guidelines must be incorporated into all ARPA funded Contracts and Subcontracts.
- 3.4 AUTHORIZED DEALER/RESELLER:** Bidders **must** submit, with their bid, signed written factory documentation that they are authorized dealers/resellers for the product they are bidding. If bidder is the manufacturer of the product they are bidding, a signed statement stating that fact **must** be included with their bid. Failure to comply with this request may be just cause for rejection of their bid.
- 3.5 BIDDER OBLIGATION:** Each bidder shall become fully acquainted with conditions relating to the scope and restrictions attending the execution of the work under this IFB. The failure or omission of a bidder to become acquainted with existing conditions shall no way relieve the bidder of any obligations with respect to this IFB or to the Contract.
- 3.6 BID EVALUATION:** In evaluating the bids, Knox County reserves the right to use any or all of the ideas from the bids submitted without limitation and to accept any part or the entire successful bid in selecting an operation which is judged to be in the best interest of Knox County. All material submitted becomes the property of Knox County.
- 3.7 COMMISSION APPROVAL:** The Contract must be voted on and approved by the Knox County Commission. The successful bidder may be required to be present at the full Commission meetings to answer questions relating to the services to be performed. Adequate notification will be given by the Knox County Procurement Division if the awarded Contractor will need to attend these meetings. There shall be no cost to Knox County for attendance at these meetings.
- 3.8 CONTRACT EXECUTION:** The award of this bid may result in a contract between Knox County and the successful vendor(s). The Contract must be voted on by the Knox County Commission and receive a majority vote. The Knox County Procurement Division will draft the contract and the contract must be approved by the Knox County Law Department. Knox County will not accept any vendor's contracts, Terms of Agreements, Service Agreements, etc. Vendors are hereby cautioned that the Knox County Mayor is the only individual who can legally bind Knox County to a contractual agreement.
- 3.9 DEALER DECALS:** No dealer decals or emblems are to be attached to the apparatus.
- 3.10 DELIVERY CONDITION OF VEHICLE(S):** The Apparatus will be delivered under its own power to insure proper break-in of all components while the Apparatus is still under warranty. A qualified delivery representative shall deliver the Apparatus and remain a sufficient length of time to instruct in proper operations, care and maintenance of the equipment delivered.

The condition of the vehicle must be internally and externally clean and rid of any trash and odors (i.e.: cigarette smoke) that are determined by Knox County to be an offense. If in the event Knox County determines the vehicle must be washed or treated by a professional to rid the vehicle of odors, the County will deduct the expenses from bidder's invoice. Additionally, Knox County will place in the vendor's performance file a note referencing the unsatisfactory delivery.

- 3.11 DELIVERY LOCATION:** The delivery location shall be the **Seymour Volunteer Fire Department and coordinated with Knox County**. The delivery address is 7915 Chapman Highway, SVFD Station 2, Knoxville, TN 37920. The successful vendor will assume all costs and responsibility for the delivery of the Apparatus to the above address. Delivery will be Monday through Friday between the hours of 8:30 a.m. through 3:00 p.m. (local time). **A twenty-four (24) hour notice is required**. Call Chief John Linsenbiger at 865-216-8651 to schedule delivery.

Delivery shall be determined by receipt signed by a designated Knox County and Seymour Volunteer Fire Department Representative at the point of delivery. Knox County will not take possession of the vehicle until a post-delivery inspection has been completed, and all components of the vehicle, including all apparatus and firefighting equipment, are found to be in working order.

3.12 DELIVERY TIME: Bidders **must** state the number of business days until delivery after receipt of a signed purchase order. Bidders shall state an accurate lead time. Vendor must state the number of business days, not a range of days. For example, an unacceptable answer is “30-60 business days.” Vendors must be specific and state either “30 business days” or “60 business days.” If vendor states a range of days, Knox County will base their answer on the maximum number of days provided.

3.13 DESTINATION AND DELIVERY: Bidders must include all destination and delivery charges in their price. **There will be no extra hidden charges.**

3.14 DISCONTINUED ITEMS: The successful vendor shall notify the Knox County Procurement Division of any items that have been discontinued and recommend an appropriate substitution. Knox County will be the sole judge if the substitution is appropriate.

3.15 ENCLOSURES WITH BID: The vendor shall submit with their bid a specification sheet for the model of the chassis for the Wildland Fire Apparatus bid. Failure to include this material may be just cause for bid rejection.

3.16 EVALUATION CRITERIA: This bid will be evaluated using the following criteria:

Price	90 Points
Delivery Time	10 Points

3.17 EVALUATION REVIEW: Knox County reserves the right to use all pertinent information that might affect the County’s judgment as to the appropriateness of an award to the best evaluated bidder. This information may be appended to the bid evaluation process results. Information on a service provider from reliable sources, and not within the service provider’s bid, may also be noted and made part of the evaluation file. Knox County shall have sole responsibility for determining a reliable source. Knox County reserves the right to conduct written and/or oral discussions/interviews after the bid opening. The purpose of such discussions/interviews is to provide clarification and/or additional information to make an award that is in the best interest of Knox County.

3.18 GRATUITIES AND KICKBACKS: It shall be a breach of ethical standards for any person or company to offer, give, or agree to give any employee or former employee, or for any employee or former employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim, or controversy or other particular matter, pertaining to any program requirement of a contract or subcontract or to any solicitation or proposal therefore.

3.19 INSURANCE: The successful bidder must carry the insurance as indicated on the Insurance Attachment, Exhibit B. As proof of the vendor’s willingness to obtain and maintain the insurance, the bidder must complete, sign and have its insurance agent sign the attachment and submit it with their bid. Upon receipt of the Notification of Intent to Award, the successful bidder will be required to submit a Certificate of Insurance showing the specified coverage and naming Knox County as additional insured.

3.20 INTERPRETATION: No oral interpretation will be made to any bidder regarding the meaning of specifications. All questions are to be submitted in writing or electronically (email) and will be answered in the form of an amendment to the solicitation by the Knox County Procurement Division.

3.21 INVOICE DETAIL: Knox County is requesting invoices to show the following detail to help expedite review and payment. The Contractor(s) may be required to modify invoicing procedures to show the detail. All potential Contractors are hereby cautioned that Knox County will only pay from original invoices and not facsimiles or copies. Invoices which do not adhere to these details may be returned to the Contractor for correction.

- 3.21.1** The invoice must show the amount due to the Contractor by Knox County;
- 3.21.2** The invoice must show an itemized detail of items;
- 3.21.3** Invoices are to be original and uniquely pre-numbered;
- 3.21.4** Invoices which do not show this information are subject to rejection.

- 3.22 INVOICE REVIEW:** Knox County shall review all invoices for adherence to the terms and conditions of the Contract. Variations from the Contract and Contract pricing are strictly prohibited. Any variations found on the invoice will result in the rejection of those invoices. Rejected invoices will be returned to the Contractor(s) for correction. If a discount for prompt payment is offered, the timeline does not commence until Knox County receives correct invoice.
- 3.23 MANUFACTURER AND MODEL NUMBER:** Vendor must note the manufacturer and model of the vehicle apparatus bid. The phrases "as specified" or "as requested" are not acceptable. Failure to include the manufacturer and model may result in the bid being non-responsive and disqualified.
- 3.24 NEWS RELEASES BY VENDORS:** As a matter of policy, Knox County does not endorse the services of a Contractor. A Contractor will not make news releases concerning any resultant contract from this solicitation without the prior written approval of Knox County.
- 3.25 NO CONTACT POLICY:** After the date and time that the vendor receives this solicitation, any contact initiated by any bidder with any Knox County representative, other than the Procurement Division representative listed herein, concerning this Invitation for Bids, is strictly prohibited. Any such unauthorized contact may cause the disqualification of the bidder from this procurement transaction.
- 3.26 NON-RESTRICTIVE CLAUSE:** When brand names, trade names or manufacturer's names or catalog numbers appear in the specifications, it is intended to establish a performance standard. The manufacturer may request to substitute a similar product as specified in Section 1.7.
- 3.27 OFFER WITHDRAWAL:** No bid can be withdrawn after it is filed unless the bidder makes a request in writing to the Knox County Procurement Division prior to the time set for the opening of bid or unless the County fails to accept within ninety (90) business days after the date fixed for opening the Invitation for Bid.
- 3.28 PUBLIC RECORDS ACT:** Knox County is subject to the Tennessee Public Records Act 10-7-503 et seq. Bidders are cautioned that all documents submitted on behalf of this Invitation for Bids shall be open to the public for viewing and inspection and Knox County will comply with all legitimate requests.
- 3.29 REJECTION OF BIDS:** Knox County reserves the right to reject any and all bids received as a result of this request and to waive any informality, technical defect or clerical error in any bid, as the interests of the County may require. Non-acceptance of any bid will be devoid of any criticism of the bid and of any implication that the bid is deficient in any manner. Non-acceptance of any bid shall be construed as meaning simply that the County does not deem the bid to be acceptable or that another bid was deemed to be more advantageous to Knox County for the particular services proposed.
- 3.30 SUBMIT QUESTIONS:** Prospective bidders may submit questions concerning this solicitation until **March 13, 2025 @ 4:30 p.m. local time**. All questions must be submitted in writing as directed in Section 1.1. Questions received after this date and time will not be considered. All questions will be answered in written addenda issued from the Knox County Procurement Division.
- 3.31 TITLE DOCUMENTS:** Adequate documents for securing title shall be provided to Knox County at the time of delivery.
- 3.32 WORKMANSHIP:** Workmanship throughout the apparatus shall conform to the highest standard of commercially accepted practice for class of work and shall result in a neat and finished appearance. The design of the body and equipment which the manufacturer proposes to furnish must be such as to provide an apparatus of substantial and durable construction in all respects.

Welding procedures, welding materials, and qualifications of operators, shall be in accordance with standards of the American Society of Testing Materials and the American Welding Society. All welds visible to the public shall be ground smooth after the welding to present a smooth, workmanlike appearance. Where metal is welded to metal, the contact surface shall be free of scale, grease, and paint. All exposed surfaces and edges shall be smooth, free from burrs and other projections, and shall be neatly finished.

All parts shall be new and in no case will used, reconditioned obsolete parts be accepted. Manufacturer shall submit with its bid a detailed description and specifications of the frame structure, roof structure, and body with particular reference to materials used.

SECTION IV GENERAL SPECIFICATIONS

4.1 GENERAL SPECIFICATIONS: The Wildland Fire Apparatus will be purchased and owned by Knox County for Seymour Volunteer Fire Department, who will utilize and maintain the apparatus. The apparatus is to be constructed to withstand the severe and continuous use encountered during emergency firefighting services. The apparatus will be of the latest type, carefully designed and constructed with due consideration to the nature and distribution of the load to be sustained.

This bid details the general design criteria of cab and chassis components, aerial device (if applicable), fire pump and related components (if applicable), water tank (if applicable), fire body, electrical components, painting, and equipment. All items of these proposal specifications will conform to the fullest extent possible with the National Fire Protection Association (NFPA) Pamphlet No. 1900, latest edition, except as noted in the Statement-of-Exceptions.

The apparatus, assemblies, subassemblies, component parts, etc., will be designed and constructed with the due consideration to the nature and distribution of the load to be sustained and to the general character of the service to which the apparatus is subjected to when placed in service. All parts of the apparatus will be designed with a factor of safety, which is equal to or greater than that which is considered standard and acceptable for this class of equipment in firefighting service. All parts of the proposed apparatus will be strong enough to withstand general service under full load. The apparatus will be so designed that the various parts are readily accessible for lubrication, inspection, adjustment and repair.

The apparatus will be designed and constructed, and the equipment so mounted, with due consideration to distribution of the load between front and rear axles that all specified equipment, including a full complement of specified ground ladders, full water tank, loose equipment, and firefighters will be carried without overloading or injuring the apparatus.

The vendor **must** complete and submit the Specifications Checklist, Exhibit A, with their bid. Failure to include the Specifications Checklist may be just cause for bid rejection.

4.2 APPARATUS FMVSS CERTIFICATION: The proposed chassis will be certified as conforming to all applicable Federal Motor Vehicle Safety Standards (FMVSS) in effect at the date of contract. This will be attested to by the attachment of a FMVSS certify caution label on the vehicle by the builder, who will be recognized as the responsible final manufacturer.

4.3 APPARATUS RECORDS RETENTION: The successful bidder will be responsible for preparing and maintaining a record file of parts and assemblies used to manufacture the proposed apparatus. These records will be maintained at the factory for a minimum of twenty (20) years. The file will contain copies of all reported deficiencies, all replacement parts required to maintain the apparatus, and original purchase documents including specifications, contract, invoices, incomplete chassis certificates, quality control reports and final delivery acceptance documents. The purchaser will have access to any and all documents contained in this file upon official written request.

4.4 CAB SAFETY SIGNS: The following safety signs shall be provided in the cab:

- A label displaying the maximum number of personnel the vehicle is designed to carry shall be visible to the driver.
- "Occupants will be seated and belted when apparatus is in motion" signs shall be visible from each seat.
- "Do Not Move Apparatus When Light Is On" sign adjacent to the warning light indicating a hazard if the apparatus is moved (as described in subsequent section).
- A label displaying the height, length, and GVWR of the vehicle shall be visible to driver.
- This label shall indicate that the fire department will revise the dimension if vehicle height changes while vehicle is in service.

4.5 CHASSIS DATA LABELS: The following information shall be on labels affixed to the vehicle:

Fluid Data:

- A label displaying the maximum number of personnel the vehicle is designed to carry shall be visible to the driver.
- Engine Oil
- Engine Coolant
- Chassis Transmission Fluid
- Pump Transmission Lubrication Fluid
- Pump Primer Fluid (if applicable)
- Drive Axle(s) Lubrication Fluid
- Air Conditioning Refrigerant
- Air Conditioning Lubrication Oil
- Power Steering Fluid
- Cab Tilt Mechanism Fluid
- Transfer Case Fluid (if applicable)
- Equipment Rack Fluid (if applicable)
- Air Compressor System Lubricant
- Generator System Lubricant (if applicable)
- Front Tire Cold Pressure
- Rear Tire Cold Pressure
- Aerial Hydraulic Fluid (if applicable)
- Maximum Tire Speed Rating

Chassis Data:

- Chassis Manufacturer
- Production Number
- Year Built
- Month Manufactured
- Vehicle Identification Number

Manufacturer's Weight Certification:

- Gross Vehicle (or Combination) Weight Rating (GVWR or GCWR)
- Gross Axle Weight Rating, Front
- Gross Axle Weight Rating, Rear

4.6 DEALER'S LICENSE: Successful bidder shall be a Motor Vehicle Dealer. A copy of a valid, current license will be included with the submission of this proposal.

4.7 EXAMINATION & TEST PROPOSAL COMPLETED BY CERTIFIED THIRD PARTY: If required by the specific chapters of NFPA-1900, the proposed unit shall be tested by a company certified third party company. A complete written examination and test report will be provided for each inspection performed at the manufacturer's facility. This report specifies the points of inspection and results of such examinations and tests. The company providing the test work on the units shall be certified to Level II in the required NDT methods, under the requirements outlined in ASNT document CP-189. The actual person(s) performing the inspection shall present for review proof of Level II Certification in the required NDT methods. The builder will designate, in writing, who is qualified to witness and certify these test results.

Prior to submittal to the automotive fire apparatus manufacturer, the final Report shall be reviewed by an authorized representative of the builder and a Registered Professional Engineer. When the unit successfully meets all the requirements outlined in NFPA 1900, the company completing these tests shall issue a Certificate of Automotive Fire Apparatus Examination and Test stating the unit's compliance with NFPA- 1900.

4.8 FIRE APPARATUS COMPLETION DOCUMENTATION: The successful bidder will provide, at the time of apparatus delivery, at least one (1) copy of the apparatus manufacturer's record of apparatus construction (build) details, including the information listed below:

- Apparatus Owner's name and address.
- Apparatus manufacturer, model and serial number.
- Apparatus Chassis make, model and serial number.
- Front tire size, and total rated capacity (in pounds).
- Rear tire size, and total rated capacity (in pounds).
- Apparatus Chassis weight distribution in pounds, with water and equipment mounted, front and rear.
- Apparatus Engine make, model, serial number, rated horsepower, rated speed and governed speed.
- Type of fuel(s) used by apparatus and fuel tank(s) capacity.
- Apparatus electrical system - Voltage and Alternator output (in amps).
- Battery make, model and total capacity (in cold crank amps).
- Transmission make, model and serial number: If equipped, chassis transmission PTO(s) make, model and gear ratio.
- Pump make, model, rated capacity in gallons per minute (GPM) and serial number.
- Apparatus water tank certified capacity in gallons.
- Paint manufacturer and paint number(s).

The apparatus manufacturer shall include certification of "slip resistance" for all stepping, standing and walking surfaces.

If the apparatus has a fire pump, the following additional documents shall be provided:

- The pump manufacturer's certification of suction capability.
- Copy of the apparatus manufacturer's approval for stationary pumping applications
- Engine manufacturer's certified brake horsepower curve for the engine provided, showing the maximum governed speed.
- Pump manufacturer's certification of hydrostatic test (if it applies).
- The independent third-party certification of inspection and test for the apparatus fire pump.

If the apparatus has a "fixed line" voltage power source, there shall be documentation of the fixed power source test certification.

If the apparatus features an air system, there shall be test results of the air quality, SCBA fill station and the installation of the air system.

The apparatus manufacturer shall provide documentation from a certified weight scale. This documentation shall show actual loading on the front axle, rear axle(s) and overall vehicle weight. This weight shall include the weight of the "full" apparatus water tank. This documentation shall be provided with the completed apparatus build to determine compliance with NFPA 1901 latest addition.

Electrical performance testing documentation and a written load analysis report shall be provided with the completed apparatus.

If the apparatus features a water tank, the water tank capacity certification shall be supplied by the tank manufacturer.

4.9 FIRE APPARATUS MANUFACTURER'S ASSOCIATION MEMBERSHIP: The successful bidder shall be a member of the Fire Apparatus Manufacturers Association.

4.10 FULL-TIME SERVICE AND WARRANTY STAFF: The successful bidder shall have sufficient full-time employees on staff dedicated to the service center's apparatus parts and warranty division.

4.11 INSPECTION VISIT: The successful bidder will provide one (1) factory inspection trip to the facility. Transportation, meals, lodging, and other requisite expenses will be the dealer's responsibility. Accommodations shall be for three (3) Fire Department/County representatives. Travel arrangements less than 300 miles from the manufacturing facility will be ground transportation. The factory visit shall occur as a final inspection upon completion of the apparatus.

Knox County and Seymour Volunteer Fire Department maintains the right to inspect the apparatus, within normal business hours at any other point during construction. Expenses incurred for/during non-specified visits will be the responsibility of Knox County/Seymour Volunteer Fire Department.

During inspection visits, Knox County and Seymour Volunteer Fire Department reserves the right to conduct actual performance tests to evaluate completed portions of the apparatus. Testing will be accomplished with the assistance and resources of the contractor.

4.12 INSTRUCTION MANUALS / DRAWINGS: The successful bidder will supply upon delivery two (2) copies of operation and service manual(s) for the completed apparatus as delivered and accepted by the customer. These manuals will contain the items below:

- Specifications, descriptions and ratings of chassis, and pump (if provided).
- Lubrication (fluids) charts.
- Operational instructions for the apparatus chassis and any major components such as a pump or auxiliary system.
- Instructions regarding the frequency and maintenance procedures recommended for the apparatus.
- Replacement parts information.

4.13 MANUFACTURER'S ENGINEER: The apparatus builder will designate a representative to perform sales engineer functions. The sales engineer will provide a single point interface between the County and builder on all matters concerning the apparatus contract.

4.14 PAINT PERFORMANCE CERTIFICATION: The proposed apparatus must meet or exceed the required Commercial Vehicle Paint Performance Standards.

4.15 PROPOSAL BLUEPRINT: The builder must provide a scaled drawing of the specific apparatus being proposed with the bid. The drawing shall be generated by the builder's engineering department in order to maintain the accuracy of the drawing.

4.16 RADIOS TO BE SUPPLIED AND INSTALLED BY BIDDER: Motorola APX8500 O7 Remote and Motorola APX4500O2 Remote Radios shall be provided and installed by Motorola Solutions. This will not delay the delivery of the apparatus and can be performed at the Seymour Fire Department.

4.17 SERVICE CENTER AND PARTS AVAILABILITY: The successful bidder shall own a service, fabrication and office complex in the USA.

4.18 SERVICE CENTER LOCATION: The successful bidder shall have service facilities in the state of Tennessee. Service Centers shall be within one hundred (100) miles of Seymour Fire Department (7915 Chapman Highway, Knoxville, TN 37920). Third party or contracted service companies will not be accepted and will be just cause for bid rejection.

4.19 SERVICE TECHNICIANS: The successful bidder shall have company owned service vehicles that will be available 24 hours a day, seven days a week to respond to customer needs. The service vehicles shall be operated by full-time EVT Certified Technicians.

4.20 SINGLE-LINE RESPONSIBILITY: The successful bidder shall engineer, design, manufacture, build, and paint the fire apparatus body, rescue apparatus body, and electrical systems. All work shall be completed in the manufacturing facilities owned and operated by the builder and by direct employees of the builder. This capability provides consistent design and manufacturing procedures that will reduce warranty issues and provide ease in parts replacement.

4.21 U.S.A. MANUFACTURER: The entire apparatus must be assembled within the borders of the Continental United States to insure more readily available parts (without added costs and delays caused by tariffs and customs) and service.

4.22 VEHICLE FLUIDS PLATE: As required by NFPA-1901, successful bidder will affix a permanent plate in the driver's compartment specifying the quantity and type of the following fluids used in the vehicle:

- Specifications, descriptions and ratings of chassis, and pump (if provided).
- Engine oil
- Engine coolant
- Chassis transmission fluid
- Pump transmission lubrication fluid
- Pump primer fluid
- Drive axle(s) lubrication fluid
- Air-conditioning refrigerant
- Air-conditioning lubrication oil
- Power steering fluid
- Transfer case fluid
- Equipment rack fluid
- Air compressor system lubricant
- Generator system lubricant

4.23 WARRANTY: The manufacturer warranty shall be listed in the bid. Warranty coverage will begin when the customer places the unit in service. This date may not exceed sixty (60) days from the date of delivery to the customer.

Note: Bidders need not return pages 1-14 with their response. Pages 15-48 must be returned as your official bid response along with any other information requested. If bidding electronically, you must attach required documents to your response. If you have any questions, please contact the Buyer referenced in Section 1.1 of this document before you submit your bid response.

SECTION V VENDOR INFORMATION AND PRICING FOR BID #3638, WILDLAND FIRE APPARATUS

Bidders are welcome to attach additional documentation to fully address any required responses. Please clearly reference any attachments to the appropriate subsection.

5.1 Vendor: _____

5.2 Vendor number as assigned by Knox County: _____

5.3 Street Address: _____
City State Zip

5.4 Contact Person: _____

Telephone Number: _____

5.5 Vendor's email address: _____

5.6 By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to Tennessee Code Annotated § 12-12-106.

Authorizing Signature: _____
Sign Original in Blue Ink

5.7 Pursuant to Tennessee Code Annotated Title 12, Chapter 4, Part 1, by submission of a response to this solicitation, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint response each party thereto as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each person is not currently engaged in, and will not for the duration of the contract engage in, a boycott of Israel.

Authorizing Signature: _____
Sign Original in Blue Ink

5.8 Vendor's Knox County Business License Number (if applicable): _____
Attach a Copy of the License

5.9 Year, Manufacturer and Model of the Chassis: _____

5.10 Cost of one (1) Wildland Fire Apparatus: \$ _____

5.11 Guaranteed business days for delivery after receipt of a signed purchase order: _____ days

5.12 Do you comply with the ARPA Project Requirements & Guidelines in Exhibit C per Section 3.3? YES NO

5.13 Did you include authorized dealer/reseller documentation per Section 3.4? YES NO

5.14 Did you include a specification sheet of the model chassis bid per Section 3.15? YES NO

5.15 Did you complete and include the Insurance Checklist as detailed in Section 3.19? YES NO

5.16 Did you include your dealer's license per Section 4.6? YES NO

5.17 Are you a member of the Fire Apparatus Manufacturer's Association per Section 4.9? YES NO

- | | | | |
|------|--|-----|----|
| 5.18 | Do you have sufficient full-time employees on staff dedicated to service and warranty per Section 4.10? | YES | NO |
| 5.19 | Do you agree to provide the Final Inspection Visit and allow additional inspection visits at the owner's cost per Section 4.11? | YES | NO |
| 5.20 | Did you provide a blueprint of the proposed apparatus per Section 4.15? | YES | NO |
| 5.21 | Do you own a service, fabrication and office complex in the USA per Section 4.17? | YES | NO |
| 5.22 | Do you have service facilities in the State of Tennessee within 100 miles of Seymour Volunteer Fire Department per Section 4.18? | YES | NO |

If Yes, please list the service facility location(s):

- | | | | |
|------|--|-----|----|
| 5.23 | Do you have EVT Certified Technicians/Service Vehicles available 24 hours a day, 7 days a week per Section 4.19? | YES | NO |
| 5.24 | Do you confirm that the entire apparatus will be assembled in the Continental USA per Section 4.21? | YES | NO |
| 5.25 | Did you include the warranty information per Section 4.23? | YES | NO |
| 5.26 | Did you complete and include the Specifications Checklist (Exhibit A)? | YES | NO |
| 5.27 | I acknowledge the receipt of: (Please write "Yes" if you received one) | | |

ADDENDA 1 ____ ADDENDA 2 ____ ADDENDA 3 ____ ADDENDA 4 ____

- | | | | | |
|------|--|-----|----|--------------------|
| 5.28 | Do you accept the terms and conditions of the bid? | YES | NO | YES WITH EXCEPTION |
|------|--|-----|----|--------------------|

If you do not fully accept the terms and conditions, please note the exceptions below:

SECTION VI SPECIFICATIONS CHECKLIST EXHIBIT A BID 3638, WILDLAND FIRE APPARATUS

VENDOR _____

Bidders must complete the Specifications Checklist and return with their bid. If submitting electronically, bidders must attach the Specifications Checklist with their response. Bidders are to indicate if Wildland Fire Apparatus bid meets the minimum specifications by marking the “Yes” or “No” box. If the minimum specification is not met, bidder must explain in the “Comment” section. Bidders may include additional sheets if needed.

6.1 PRINCIPAL APPARATUS DIMENSIONS & GVWR: Builder will include the principal dimensions, front GAWR, rear GAWR, and total GVWR of the proposed apparatus. Additionally, the builder will provide a weight distribution of the fully loaded, completed vehicle; this will include a filled water tank, specified hose load, miscellaneous equipment allowance in accordance with NFPA-1901 requirements, and an equivalent personnel load of 250 lbs. per seating position.

6.2 Technical Specifications:

Specification	Yes	No	Comments
General Dimensions			
Overall Length: TBD – List in Comments			
Overall Width: 100"			
Overall Height: TBD – List in Comments			
Wheelbase: 199", 84" CA			
Minimum Front GAWR: TBD – List in Comments			
Minimum Rear GAWR: TBD – List in Comments			
Minimum Total GVWR: 19,500 lb.			
Vehicle Summary			
Chevrolet Silverado 4WD Crew Cab Work Truck or Equal			
Engine: Duramax 6.6L Turbo-Diesel V8 or Equal, B20-Diesel Compatible			
Emergency Service Transmission, Automatic close-ratio 6-speed with double overdrive, Allison or Equal.			
Rear Axle, 4.30 ratio			
Work Truck Preferred Equipment Group			
Electrical Provisions, rear of frame, uplifter, body builder wiring			
Additional fuel – 5 gallons			
Seats, front 40/20/40 split-bench 3 passenger			
Delete Spare Tire			
Remote Keyless Entry			
Fuel Fill Kit			
Battery, top post threaded, battery jump start stud			
Mirrors, outside heated power-adjustable vertical trailing, upper glass, manual-folding and extending, black			
DPF, diesel particulate filter, manual regeneration			
Front Axle, 7,500 lb., Dana Spicer 60-256, single-reduction, front driving			
Rear Suspension, 15,500 lb. multi-leaf, vari-rate			
Axle, limited slip, Dana Spicer Truetrac, torque proportioning limited slip			
Dark ash seats with jet black interior accents, vinyl seat trim			
Audio System, 7" diagonal color touch-screen			
Rear axle, 15,500 lb., Dana Spicer S 16-130, single reduction			
Dual Alternators, 150 amps and 220 amps each			
Skid plate, steel, frame-mounted, protects the transfer case from the ground			
Power take off engine control provisions			
Wheels, 19.5" x 6.75", steel black painted, 8 holes, hub piloted			
Back-up alarm/Back-up alarm calibration			
Horn, dual-note			
Recover hooks, front, frame mounted, black			
License Plate Kit, front			

Vehicle Summary Continued	Yes	No	Comment
Tires, front 225/70R 19.5G highway blackwall Pirelli			
Tires, rear 225/70R 19.5G highway blackwall Pirelli			
Emergency Service Package			
Solid Paint			
Bluetooth for phone, personal cell phone connectivity to vehicle audio system			
26,000 lb. GCWR			
No VDR or seatbelt monitor shall be provided or installed			
12,000 lb. WARN WINCH – Zeon 12 or Equal.			
Warn winch: 12,000 lb. (5443 kg) single-line pulling capacity.			
Warn winch: 80' of durable 3/8" galvanized steel wire rope.			
Warn winch: Satin-black powder-coated finish with stainless steel fasteners and clutch lever too inhibit corrosion.			
Warn winch: Large diameter winch drum reduces rope wear, is light weight, and has an integrated rope anchor for easy rope installation.			
Warn winch: Limited Lifetime Warranty for Mechanical Components.			
Warn winch: Limited Seven (7) year warranty for Electrical Components.			
Warn Winch Mount: winch mount constructed of black coated steel with quick connect wiring shall be provided, 89990.			
Hammerhead #600-56-1079 (or Equal) Armor Front Bumper Grille Guard (15K Winch Ready). Front bumper and brush guard. Accommodates up to 16,500 lb. warn winch. Built from 7 Guage 1.75" X 0.12" Wall Tubing Frame, 1.75" laser cut, tubular brush guard with folding mechanism for vehicle servicing. Will retain the OEM's tow hooks.			
DBL Design Super Single Conversion Kit - single wheel conversion from dual rear wheels to four single Continental tires and shall be provided and installed. The wheels, tires and fenders shall be from DBL Designs.			
Kelderman (or Equal) Dual Steering Stabilizing Bracket – Improve vehicle steering performance and stability by reducing steering wonder and wobble. Provides additional support to the steering system to reduce the impact of bumps, pot-holes, and other road hazards.			
Warn Roller Fairlead - A Warn Winch roller fairlead shall be provided and installed. The roller fairlead reduces wire rope wear and guides wire rope onto the winch drum. The heavy-duty roller shall have black painted finish.			
Warn Epic Hook - A Warn Epic Winch Hook shall be provided. The hook shall be made of forged steel with e-coat finish to provide maximum protection and reliability against wear, impact and abrasion. The hook shall be rated for 12,000 lb. capacity winches and come with a Limited 1 Year Warranty.			
Warn Wire Rope - One (1) 80' sections of 3/8" wire rope shall be provided for the winch.			
Center Console - A center console shall be furnished and shall be located between the driver and officer's seats.			
Console: The forward area of the console shall have a mounting surface for emergency lighting switch panels and/or electronic siren control boxes within reach of the driver or officer.			
Console - The console shall be equipped with two (2) map/notebook storage pockets at the rear of the console.			
Console - The console shall be painted with black spec paint. Color to be determined at preconstruction.			

	Yes	No	Comment
Antenna Installation - Two (2) antenna mounting base(s) model #MATM with 17' of coaxial cable shall be provided and installed on the cab roof. The attached antenna wire(s) shall be run to the center console. The Purchaser is responsible for having the correct antenna whip installed once the apparatus is delivered.			
Westin HDX (Or Equal) Drop Down Nerf Step Bars - A set of Westin HDX Drop Down Nerf Step Bars (Or Equal) with a black powder coated finish, model #56-13945, shall be installed on the apparatus to provide step support under the apparatus cab doors. The step bars shall feature a solid 1-piece steel construction and heavy-duty punch plates creating high traction step areas. The steps shall come with a manufacturer's three (3) year limited warranty.			
Cab Step Lights - TecNiq E-03 (or Equal) step lights shall be provided, one (1) near each cab door to illuminate the cab stepping surfaces. The step lights shall be mounted in a convenient location so as to provide appropriate illumination to the cab stepping surfaces. The step lights shall automatically activate when the exit doors are opened, parking brake is applied, and marker lights are active.			
Diamond Grade Reflective Door Material – Red/Black - There shall be Diamond Grade ScotchLite material with the builder logo installed on the inside of the driver and officer side cab doors. The ScotchLite shall be red and black in color.			
Chassis/Body Electrical & Accessories			
The commercial chassis electrical system shall be provided as furnished by the original manufacturer. A customized interface shall be provided and designed, so as not to disturb any of the required chassis functions. The necessary interfaces shall only be provided in areas where load management is allowed or with accessory components provided on the chassis.			
12 Volt Electrical System Testing: The apparatus low voltage electrical system shall be tested and certified by the manufacturer. The certification shall be provided with the apparatus. All tests shall be performed with air temperature between 0°F and 100°F. The following three (3) tests shall be performed in order. Before each test, the batteries shall be fully charged.			
Test #1-Reserve Capacity Test: The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for 10 minutes. All electrical loads shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a test failure.			
Test #2-Alternator Performance Test at Idle: The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.			

	Yes	No	Comment
<p>Test #3-Alternator Performance Test at Full Load: The total continuous electrical load shall be activated with the engine running up to the engine manufacturers governed speed. The test duration shall be a minimum of 2 hours. Activation of the load management system shall be permitted during this test. However, an alarm sounded due to excessive battery discharge, as detected by the system, or a system voltage of less than 11.7 volts DC for a 12 volt system, for more than 120 seconds, shall be considered a test failure.</p>			
<p>Low Voltage Alarm Test: Following completion of the preceding tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm is activated. The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of less than 11.7 volts shall be considered a test failure. The battery system shall then be able to restart the engine.</p>			
<p>Low Voltage Alarm Test: At time of delivery, documentation shall be provided with the following information:</p> <ul style="list-style-type: none"> • Documentation of the electrical system performance test • A written load analysis of the following: <ul style="list-style-type: none"> ○ Nameplate rating of the alternator ○ Alternator rating at idle while meeting the minimum continuous electrical load ○ Each component load comprising the minimum continuous electrical load. ○ Additional loads that, when added to the minimum continuous load, determine the total connected load. ○ Each individual intermittent load. 			
<p>Load Management System: An "Intelligent" load management system shall be provided. The load management system shall be capable of offering load sequencing, load shedding, fast idle control, low voltage warning, scene mode operation and response mode operation.</p> <p>The load management shall have a digital display to indicate system voltage in normal operation mode and also indicate the output configuration during programming mode.</p> <p>The load management shall also be protected against reverse polarity and shorted outputs and be enclosed in a metal enclosure to enhance EMI/RFI protection.</p>			
<p>Voltage Monitor System: A voltage monitoring system shall be provided to indicate the status of the battery system connected to the vehicle's electrical 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 volts DC for more than two (2) minutes.</p>			
<p>Electrical Harness Specifications:</p>			
12-Volt Wiring Harness installed by the manufacturer			
SAE J 1128 - Low tension primary cable			
SAE J1292 - Automobile, truck, truck-tractor, trailer and motor coach wiring			
SAE J 163 - Low tension wiring and cable terminals and splice clips			
SAE J 2202 - Heavy duty wiring systems for on-highway trucks			
NFPA 1901 - Standard for automotive fire apparatus			

Electrical Harness Specifications Continued:	Yes	No	Comment
FMVSS 302 - Flammability of interior materials for passenger cars, multipurpose passenger vehicles, trucks and buses			
SAE J 1939 - Serial communications protocol			
SAE J 2030 - Heavy-duty electrical connector performance standard			
SAE J 2223 - Connections for on board vehicle electrical wiring harnesses			
NEC - National Electrical Code			
SAE J 561 - Electrical terminals - Eyelet and spade type			
SAE J 928 - Electrical terminals - Pin and receptacle type A			
Harnesses shall be routed throughout the cab and chassis in a manner which allows the harnessing to be laid into its mounting location. Routing of harnessing which requires pulling of wires through tubes is never allowed at the manufacturer.			
Wiring shall be run in loom or conduit where exposed and have grommets or other edge protection where wires pass through metal. Wire colors shall be integral to each wire insulator and run the entire length of each wire. Harnessing containing multiple wires and using a single wire color for all wires shall not be allowed. Function and number codes shall be continuously imprinted on all wiring harness conductors at 3.00" intervals. All wiring installed between the cab and into doors shall be protected by a wire conduit to protect the wiring. Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids.			
Electrical wiring and equipment shall be installed utilizing the following guidelines:			
All holes made in the roof shall be caulked with silicon. Large fender washers, liberally caulked, shall be used when fastening equipment to the underside of the cab roof.			
Any electrical component that is installed in an exposed area shall be mounted in a manner that shall not allow moisture to accumulate in it. Exposed area shall be defined as any location outside of the cab or body.			
For low cost of ownership, electrical components designed to be removed for maintenance shall be quickly accessible. For ease of use, a coil of wire shall be provided behind the appliance to allow them to be pulled away from the mounting area for inspection and service work.			
Corrosion preventative compound shall be applied to non-waterproof electrical connectors located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation of the plug.			
Any lights containing non-waterproof sockets in a weather-exposed area shall have corrosion preventative compound added to the socket terminal area.			
All electrical terminals in exposed areas shall have protective coating applied completely over the metal portion of the terminal.			
Rubber coated metal clamps shall be used to support wire harnessing and battery cables routed along the chassis frame rails.			
Heat shields shall be used to protect harnessing in areas where high temperatures exist. Harnessing passing near the engine exhaust shall be protected by a heat shield.			
Cab and crew cab harnessing shall not be routed through enclosed metal tubing. Dedicated wire routing channels shall be used to protect harnessing therefore improving the overall integrity of the vehicle electrical system. The design of the cab shall allow for easy routing of additional wiring and easy access to existing wiring.			

Electrical wiring and equipment shall be installed utilizing the following guidelines continued:	Yes	No	Comment
All standard wiring entering or exiting the cab shall be routed through sealed bulkhead connectors to protect against water intrusion into the cab.			
Battery Cable Installation: All 12-volt battery cables and battery cable harnessing installed by the apparatus manufacturer shall conform to the following requirements and guidelines:			
SAE J 1127 - Battery Cable			
SAE J 561 - Electrical terminals, eyelets and spade type			
SAE J 562 - Nonmetallic loom			
SAE J 836 A - Automotive metallurgical joining			
SAE J 1292 - Automotive truck, truck-tractor, trailer and motor coach wiring			
NFPA 1901 - Standard for automotive fire apparatus			
Splices shall not be allowed on battery cables or battery cable harnesses.			
Battery cables shall be color coded. All positive battery cables shall be marked red in color.			
All negative battery cables shall be black in color.			
All positive battery cable isolated studs throughout the cab and chassis shall be red in color.			
All electrical buss bars located on the exterior of the apparatus shall be coated to prevent corrosion.			
An operational test shall be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.			
Kussmaul "Super" Auto Eject (Or Equal): A Kussmaul Super Auto Eject Model #091-55-20-120 (Or Equal), 20 amp 120 volt shore power assembly, cover, solenoid input wire, power cord, and plug shall be installed. The 12 volt solenoid shall eject the shore power cord away from vehicle path upon sensing engine start. After ejection, the weatherproof cover snaps into position over inlet. The unit shall sequence energizing of an Auto Eject, eliminating terminal arcing when connecting and disconnecting power cord. The unit shall have a waterproof back enclosure with watertight cable fittings, which protect mechanism from road contamination.			
Kussmaul (Or Equal) Auto Eject Cover: The Kussmaul auto-eject connection shall be equipped with a Red weatherproof cover.			
Shoreline Power Inlet Plate: A shoreline power receptacle information plate shall be permanently affixed at or near the power inlet. The plate shall indicate the type of line voltage and the current rating in amps power inlet type (DC or AC). The shoreline receptacle shall be mounted on the flatbed as directed.			
ProMariner (Or Equal) Battery Charger: A ProMariner, ProNautic 1240P (Or Equal), fully automatic battery charger shall be provided for maintaining the vehicle battery system. The charger shall feature a four (4) stage automatic charging system that shall extend the battery life and usage with multi-stage charging featuring a fast charge and a float/maintenance mode. A LED status center, built into the charger, shall provide at-a-glance status of fast charge, conditioning, ready (float/maintenance) and battery type selection. Output current shall be 40 amperes @ 12 volt DC.			

	Yes	No	Comment
<p>ProNautic (Or Equal) Remote Charge Indicator: A ProNautic digital remote display will be installed on the apparatus in a location designated by the fire department including</p> <ul style="list-style-type: none"> • Remote control for Pronautic P series chargers • LCD display with push button control • Includes 20' cable • Helm remote • Used with ProNautic P battery chargers. • 20-foot cable 			
<p>120 Volt 5-15R Receptacle in Body Compartment Wired to Shoreline: One (1) 120-volt 5-15 R household type receptacle(s) shall be located in the specified body compartment as directed. The receptacle(s) shall be wired into the shoreline receptacle to provide a 120-volt power source for fire department equipment.</p>			
<p>Switch Control Console: An eight (8) switch control console shall be provided and located within easy reach of the driver and or officer. This switch package shall separate the emergency/auxiliary electrical functions from the regular chassis functions. A minimum of eight (8) switches with integral indicator lights shall be provided. The eight (8) switches shall be green backlit and located in the cab near the driver for warning lights and auxiliary controls. All switches, (other than the master switch), shall have switch function labeling and an integral indicator light.</p>			
<p>“Do Not Move Apparatus” Warning Light With Audible Alarm: A Truck-Lite 2.5" round, red flashing warning light with an audible alarm, shall be functionally located in the cab and shall be activated automatically whenever the apparatus parking brake is not fully engaged and of the following conditions exist:</p> <ul style="list-style-type: none"> • Any driver, passenger or equipment compartment door is not closed • Any ladder or equipment rack is not in the stowed position • Stabilizer system is not in its stowed position • Powered light tower is not stowed • Any other device permanently attached to the apparatus is open, extended or deployed in a manner that is likely to cause damage to the apparatus if the apparatus is moved <p>This light shall be labeled "Do Not Move Apparatus When Light Is On."</p>			
<p>USB Charging Port – Center Console: One (1) USB charging port(s) shall be installed in the cab of the truck for the fire department’s accessory devices. Each port shall have two (2) USB-C and two (2) USB-A connections. The port(s) shall be located in the center console as directed, for devices such as cellular phones.</p>			
<p>Blue Sea (Or Equal) Fuse Block – 6 Circuit in Body Compartment: A Blue Sea 5025B (Or Equal), 6 circuit fuse block shall be installed in the body compartment. This block has a maximum amperage of 60 Amps per block and 30 Amps per circuit.</p>			
<p>Blue Sea (Or Equal) Fuse Block – 6 Circuit in Center Console: A Blue Sea 5025B (Or Equal), 6 circuit fuse block shall be installed in the center console. This block has a maximum amperage of 60 Amps per block and 30 Amps per circuit.</p>			

	Yes	No	Comment
<p>Voyager (Or Equal) Rear Camera System: A Voyager Heavy Duty observation system (Or Equal) shall be provided and installed. This Observation System includes a Voyager (Or Equal) 7" quad view monitor that has the capability of single images, split screen or quad view modes. The monitor shall be mounted to allow the driver to visually see the rear of the apparatus while in the cab. One (1) waterproof rear-view color camera with LED Low Light Assist shall be provided and surface mounted on the rear of the apparatus body. The rear-view camera shall be wired to automatically activate when the chassis transmission is placed in reverse. The monitor for the rear vision system shall be mounted ceiling of the cab in easy view of the driver.</p>			
<p>Skid Plates: 3/16" smooth aluminum skid plates shall be provided and installed to protect the transfer case, transmission and front steering components.</p>			
<p>Rear Seating: Remove Existing Rear Seat, Install 2 Bostrom 7547-2309F SIERRA EHBFX FLDHLD 2PK RR CREW RSR (Or Equal).</p>			
<p>12 Volt Body Electrical System: All electrical lines in the body shall be protected by automatic circuit breakers, conveniently located to permit ease of service. Flashers, heavy solenoids and other major electrical controls shall be located in a central area near the circuit breakers.</p>			
<p>12 Volt Body Electrical System: All lines shall be color and function coded every 3", easy to identify, oversized for the intended loads and installed in accordance with a detailed diagram. A complete wiring diagram shall be supplied with the apparatus.</p>			
<p>12 Volt Body Electrical System: Wiring shall be carefully protected from weather elements and snagging. Heavy duty loom shall be used for the entire length. Grommets shall be utilized where wiring passes through panels.</p>			
<p>12 Volt Body Electrical System: In order to minimize the risk of heat damage, wires run in the engine compartment area shall be carefully installed and suitably protected by the installation of heat-resistant shielded loom.</p>			
<p>12 Volt Body Electrical System: All electrical equipment shall be installed to conform to the latest federal standards as outlined in NFPA 1901.</p>			
<p>Dot Marker Lights and Reflectors: Cab marker lights and signaling devices shall be as provided on the commercial chassis cab from the original chassis manufacturer. FMVSS reflectors shall be provided as required.</p> <p>Two (2) low profile, flush mount rectangular red LED marker lights with reflex lens shall be provided at the lower side rear, one (1) each side.</p> <p>Two (2) red LED with clear lens clearance side marker lights shall be provided on the apparatus rear upper, one (1) each side at the outermost practical location.</p> <p>Three (3) low profile, flush mount rectangular red LED marker lights with reflex lens shall be provided on the apparatus rear center.</p>			
<p>LED License Plate Light – Driver Side Rear: One (1) LED license plate light shall be provided above the mounting position of the license plate driver's side rear of the body. The light shall be clear in color and shall have a chrome finish.</p>			

Whelen Tail, Stop, Turn and Back Up Lights:	Yes	No	Comment
Two (2) Whelen M6 Series Model M62BTT (Or Equal) brake, tail and turn lights shall be provided. The M62BTT configuration shall consist of 72 red 5mm Super-LEDs® and a clear non-optic polycarbonate lens. The M62BTT shall include two Scan-Lock™ flash patterns of Steady (Brake) Default and SignalAlert™ Steady.			
Two (2) Whelen M6 Series Model M62BU (Or Equal) back-up light shall be provided. The steady burn back-up light shall incorporate Linear Super-LED® and technology. The M62BU configuration shall consist of 12 clear Super-LEDs and a clear optic polycarbonate lens. The M62BU shall utilize optic collimators, a metalized reflector, and optic lens for maximum illumination.			
The encapsulated assembly shall be resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The light engine shall be installed at the rear of the unit and be vacuum tested to ensure proper sealing. The PC board shall be conformal coated for additional protection.			
The brake/tail/turn and backup lights shall meet SAE specifications J1398, J585, J1395, J586, and J1330. The M62BTTTC is covered by a five-year factory warranty.			
The lights shall be mounted in individual black flanges model M6FB (Or Equal).			
FireTech HiViz 12" LED Single Stack Minibrow Light:			
Three (3) 12" HiViz LED "FireTech" combination flood/spot minibrow lights, model #FT-MB-9-FT-B (Or Equal), shall be furnished and installed.			
The FireTech HiViz MiniBrow series is a single-circuit fixture has nine (9) LEDs producing 4,752 lumens per light head. 10 degree "Spot" optics are optimized for long distance projection. 60-degree Flood optics on the rear and for general purpose illumination. The housing shall be made from a solid billet of aluminum which offers superior structural rigidity and thermal dissipation.			
The FireTech Combination Optic pattern uses 1/3 spot, 2/3 flood optics and gives you a hybrid beam pattern without sacrificing optic efficiency. To include a lifetime warranty.			
One (1) light shall be mounted on the front brush guard above the Whelen Dominator.			
Two (2) lights shall be mounted - one (1) each side above the rear facing booster reels.			
FireTech HiViz 31" LED Single Stack Minibrow Light:			
Two (2) 31" HiViz LED "FireTech" combination flood/spot Minibrow lights, model #FT-MB-24-FT-B (Or Equal), shall be furnished and installed.			
The FireTech HiViz MiniBrow series is a single-circuit fixture has twenty-four (24) LEDs producing 12,627 lumens per light head. 10 degree "Spot" optics are optimized for long distance projection. 60-degree Flood optics on the rear and for general purpose illumination. The housing shall be made from a solid billet of aluminum which offers superior structural rigidity and thermal dissipation.			
The FireTech Combination Optic pattern uses 1/3 spot, 2/3 flood optics and gives you a hybrid beam pattern without sacrificing optic efficiency. To include a lifetime warranty.			
The lights shall be mounted above the side compartments.			
Light Above Windshield Switching – Cab: Three (3) switches shall be provided in the cab warning light switch console to control the individual lighting circuits of the HiViz FireTech 12" LED brow light.			

	Yes	No	Comment
Light Above Windshield Switching – Cab: Three (3) switches shall be provided in the cab warning light switch console to control the individual lighting circuits of the HiViz FireTech 31" LED brow light.			
TecNiq E10 LED Ground Lights – Below Cab Doors: One (1) TecNiq (Or Equal) LED, 6" long ground light with stainless steel mounting bracket, shall be provided under each side cab door entrance step, four (4) total. Each light shall illuminate an area at a minimum 30" outward from the edge of the vehicle.			
TecNiq E10 LED Ground Lights – Below Midship Compartment: One (1) TecNiq (Or Equal) LED, 6" long ground light with stainless steel mounting bracket, shall be provided under each mid ship compartment, two (2) total.			
TecNiq E10 LED Ground Lights – Below Rear Body Corners: One (1) TecNiq (Or Equal) LED, 6" long ground light with stainless steel mounting bracket, shall be provided under each rear body corner, two (2) total.			
Ground Light Switching – Engage with Parking Break: The cab and body ground lights shall activate by engaging the parking brake. ** If on a Ford chassis, the cab and body ground lights shall activate by shifting to park.**			
Compartment Light Activation: Compartment lighting shall be switched from an integral switch as provided by the manufacturer.			
TecNiq LED Compartment Strip Lights: The compartments shall be equipped with TecNiq (Or Equal) LED flexible white-light strips on each side of the interior door opening, E41-R010-1 (Or Equal). The light strips are ultra-thin, 3/16" sections installed with 3M abrasive tape back. The lights shall be designed and manufactured to be waterproof meeting the IPX7 industry standard. Approximately Two (2) 12" sections shall be needed for the compartments.			
TecNiq LED Compartment Strip Lights: The compartments shall be equipped with TecNiq (Or Equal) LED flexible white-light strips on each side of the interior door opening, E41-R010-1 (Or Equal). The light strips are ultra-thin, 3/16" sections installed with 3M abrasive tape back. The lights shall be designed and manufactured to be waterproof meeting the IPX7 industry standard. Approximately Five (5) 36" sections shall be needed for the compartments.			
12-Volt Winch Connection: A 12-volt electrical connection with a quick disconnect compatible with a portable winch {will/shall} be provided adjacent to the trailer connection on the rear of the body. A plastic end cap {will/shall} be provided for the quick disconnect.			
Winch Receiver Point – Each Side of the Body: A 2" square receiver point {will/shall} be provided beneath the rub rail toward each side of the body for a portable winch. The receiver point {will/shall} be a 2 1/2" x 2 1/2" x 1/4" full width of body seamless steel tube welded and gusseted to 3" x 1 1/2" steel channel directly bolted to four points on the chassis frame rails. A 12V electrical connection with a quick disconnect compatible with the portable winch {will/shall} be provided adjacent to the receiver point. A plastic end cap {will/shall} be provided for the quick disconnect.			
Winch Receiver Point – Front of Chassis: Change the front bumper to a Buckstop Classic 1 SKU: C200A1 (Or Equal) with a 2" portable winch point and 12-volt winch connection.			

	Yes	No	Comment
<p>NFPA Audible and Lighting Warning Package: The following warning light package shall include all of the minimum warning light and actuation requirements for the current revision of NFPA 1901 Fire Apparatus Standard. The lighting as specified shall meet the requirements for both "Clearing Right of Way" and "Blocking Right of Way" which includes disabling all white warning lights when the apparatus is in "Blocking Right of Way" mode.</p>			
<p>Light Package Actuation Controls: The entire warning light package shall be actuated with a single warning light switch located on the cab switch panel. The wiring for the warning light package shall engage all of the lights required for "Clearing Right of Way" mode when the vehicle parking brake is not engaged. An automatic control system shall be provided to switch the warning lights to the "Blocking Right of Way" mode when the vehicle parking brake is engaged.</p>			
<p>Warning Light Flash Pattern: All of the perimeter warning lights shall be set to an NFPA compliant flash pattern by the apparatus manufacturer.</p>			
<p>NFPA Zone A, Upper Warning Lights: Whelen #JE2NFPA "Justice", (Or Equal) 56" LED cab roof warning light bar shall be furnished and rigidly mounted on top of the cab roof. The light bar shall be equipped with the following:</p> <ul style="list-style-type: none"> • Clear Lenses • Four Corner Red LIN9 LEDs • Six Red Forward Facing CON 3 LEDs • Two White Forward Facing CON 3 LEDs. <p>If equipped, the forward facing white lights shall be automatically disabled for the "Blocking Right of Way" mode.</p>			
<p>NFPA Zone C, Upper Warning Lights: Two (2) Whelen M6 Series Model # M6RC (Or Equal) warning lights shall be furnished and mounted one (1) each side on the upper rear face of the body, facing rear. The warning light shall incorporate Linear Super-LED® and Smart LED® technology. Each light head shall be equipped with red LED lights and clear lens. The lights shall be installed with a black mounting flange.</p>			
<p>NFPA Zones B & D, Rear, Upper Warning Lights: Two (2) Whelen M6 Series Model M6RC (Or Equal) warning lights shall be furnished and mounted one (1) each side on the upper side face, towards the rear of the body, facing to each side of the unit. Each light head shall be equipped with red LED lights and clear lens. The lights shall be installed with a black mounting flange.</p>			
<p>NFPA Zones B & D, Front, Upper Warning Lights: Two (2) Whelen M6 Series Model M6RC (Or Equal) warning lights shall be furnished and mounted one (1) each side on the upper side face, towards the front of the body, facing to each side of the unit. Each light head shall be equipped with red LED lights and clear lens. The lights shall be installed with a black mounting flange.</p>			
<p>NFPA Zone A, Lower Warning Lights: Two (2) Whelen Dominator Plus Series, model DP6, (Or Equal) shall be furnished and mounted as directed. The Whelen DP6 warning light features six (6) LINZ6 Super LEDs in a low-profile aluminum extrusion housing. Each light head shall be equipped with three (3) red and three (3) white/clear LED lights. The lights shall have a black polycarbonate powder coated housing with a slide bolt mount. The lower zone A warning lights shall be mounted in the commercial chassis grille no higher than 62" from ground level.</p>			

	Yes	No	Comment
NFPA Zone C, Lower Warning Lights: Two (2) Whelen M6 Series Model M6RC (Or Equal) warning lights shall be furnished and installed one (1) each side directly below the DOT stop, tail, turn and backup lights. Each light head shall be equipped with red LED lights and clear lens. The lights shall be installed with a black mounting flange.			
NFPA Zones B & D Front, Lower Warning Lights: Two (2) Whelen M2 Series Model M2WR wide angle warning lights (Or Equal) shall be furnished and installed one (1) each side. Each light head shall be equipped with red LED lights and clear lens. The lights shall be installed with a black mounting flange. The lower zone B & D warning lights shall be mounted on the sides of the front bumper extension. The light shall be mounted no higher than 62" from ground level.			
NFPA Zones B & D Rear, Lower Warning Lights: Four (4) Whelen M2 Series Model M2WRC wide angle warning lights (Or Equal) shall be furnished and installed two (2) each side. Each light head shall be equipped with red LED lights and clear lens. The lights shall be installed with a black mounting flange.			
Warning Light System Certification: The warning light system(s) specified above shall not exceed a combined total amperage draw of 45 AMPS with all lights activated in either the "Clearing Right of Way" or the "Blocking Right of Way" mode. The warning light system(s) shall be certified by the light system manufacturer(s), to meet all of the requirements in the current revision of the NFPA 1901 Fire Apparatus Standard as noted in the General Requirements section of these specifications. The NFPA required "Certificate of Compliance" shall be provided with the completed apparatus. Any large truck as defined by NFPA shall have the lower zone warning lights mounted no higher than 62" to the optical center of the warning light from ground level.			
Optional Warning Lights			
Whelen Tracer Lights: Four (4) of Whelen Tracer DUO lights (Or Equal) with red and white LEDs shall be supplied and install. Engineered to increase vehicle visibility, the Tracer™ utilizes Whelen's Super-LED® technology to provide high intensity warning and illumination. The Tracer lights are to be mounted two (2) on each side of the apparatus above the running boards.			
Traffic Adviser Warning Light: One (1) Whelen LED "Traffic Adviser", model TAL65 36" (Or Equal), rear directional light shall be installed on the rear of the body. The light shall be equipped with six (6) lamps. The directional light shall be activated by a control module. The control module shall be conveniently located near the driver's position. The rear directional light shall be wired through the load management system of the unit. The traffic adviser shall be mounted on the rear sheet.			
Audible Warning Equipment			
Back-up Alarm: A 97 dB(A) back-up alarm shall be provided and installed at the rear of the apparatus under the tailboard. The back-up alarm shall activate automatically when the transmission is placed in reverse gear and the ignition is "on".			

	Yes	No	Comment
Electronic Siren: One (1) Whelen Siren Amplifier model # 295SLSA1 (Or Equal) shall be provided. The siren amplifier shall incorporate a 12V/200W siren installed on an aluminum alloy chassis covered by a black polycarbonate powder coated housing for maximum protection. The 295SLSA1 shall have the ability for either 100 or 200 watt output. The operating controls shall consist of a power switch, manual button, PA volume switch, horn button, and rotary switch.			
Electronic Siren: The siren amplifier shall have a "Siren in Use" icon driver and adjustable preset repeat radio volume. The 295SLSA1 shall have a "Park Kill" feature that disables the siren when the vehicle is in park. The PTT (push to talk) switch on the microphone shall override all siren functions. The 295SLSA1 shall have a combination On/Off and horn ring transfer switch with Bi-polarity horn/ring activation control. The 295SLSA1 shall have SI Test® capability to perform a complete diagnostic silent test of amplifier and speaker(s). The siren amplifier shall have a quick disconnect plug.			
Electronic Siren Speaker – Driver’s Side of Front Bumper: One (1) Whelen, model # SA315P (Or Equal) composite black siren speaker, shall be provided, recessed on the driver's side of the front bumper and wired to the electronic siren.			
The electronic siren and speaker shall meet the NFPA required SAE certification to ensure compatibility between the siren and speaker.			
Low Frequency Siren: One (1) Whelen HOWLER low frequency siren (Or Equal) shall be provided and installed. The Howler shall use the output of a standard emergency vehicle siren and synthesize a low frequency vibrating signal. The Howler shall amplify this signal to drive Whelen low frequency speakers.			
Low Frequency Siren: The Howler shall incorporate the latest solid-state designs for superior reliability and sound quality. The system shall be comprised of an amplifier, two speakers, a timer, and mounting hardware.			
Low Frequency Siren: The siren shall be controlled with a two (2) position momentary switch, located on the cab FLOOR, to allow the operator to turn the Howler on or off while the main siren is activated.			
400-Gallon UPF Defender III Skid Unit Tank (Or Equal)			
Tank Capacity: The tank shall have a capacity of 400 US gallons of water and shall be constructed of PT3™ polypropylene material. This material shall be a non-corrosive stress relieved thermoplastic and UV stabilized for maximum protection. Tank shell thickness may vary depending on the application and may range from ½ to 1" as required. Internal baffles are generally 3/8" in thickness.			

	Yes	No	Comment
<p>Tank Construction: The tank shall be constructed of 1/2" thick polypropylene sheet stock with AccTuf™ resin. The material shall be of a certified, high quality, non-corrosive, stress relieved thermo plastic, black in color with a textured finish, and UV stabilized for maximum protection. The tank shall be of a standard configuration and will be designed to have complete modular slide in capability. All joints and seams are to be fully nitrogen welded and electronically tested for maximum strength. The unit shall incorporate transverse partitions manufactured of 3/8" polypropylene which shall interlock with a series of longitudinal partitions constructed of 1/2" polypropylene. All swash partitions shall be designed to allow for maximum water and air flow between compartments and are fully welded to each other as well as to the inside of the tank. The rear wall of the tank shall have a standard tube with ball indicator for tank level indication.</p>			
<p>Fill Tower: The tank shall be equipped with a combination vent/overflow and manual fill tower. The fill tower shall be an 8" square by 6" high with a molded drop-on type cover. The cover shall be fastened to the tower with a tether to prevent loss. The tower shall be in the right rear corner of the tank. There shall be a vent/overflow installed inside and to the extreme rear of the tower approximately 2" down from the top. This vent/overflow shall be of a standard schedule 40 polypropylene pipe with minimum ID of 3". The vent/overflow shall be piped internally within the tank to exit as far to the rear as possible.</p>			
<p>Tank Cover: The tank cover shall be constructed of 1/2" thick polypropylene, black in color; UV stabilized, and incorporates an exclusive self-locking design. The tank cover shall be flush mounted and individually removable with up to 100% access for inspection or repair if necessary. The cover shall incorporate four (4) 2" polypropylene for hold-down and lifting provisions. These dowels shall be tapered for 1/2" -13 threads to accommodate a lifting eye with a minimum-security factor of 3 to 1. These dowels shall be welded into the transverse baffles and shall assist in minimizing cover flex during normal operation.</p>			
<p>Tank Outlets: There shall be two standard tank outlets located on the rear wall of the tank. One (1) 3" female NPT tank to pump suction fitting and one (1) 1-1/2" female NPT tank fill fitting with flow deflector.</p>			
<p>5-Gallon Foam Tank: Included in the total capacity of the water tank, a 5-gallon integral foam storage area shall be built into the water tank. The foam tank shall have a manual fill tower. The fill tower shall be constructed of 1/2" PT3™ polypropylene and shall be a minimum dimension of 8" x 8" outer perimeter. Each foam fill tower shall be constructed of a colored material (green for Class A foam, yellow for Class B foam and black for other foams) indicating which tower is to receive each type of foam utilized. The capacity of the tank shall be engraved on the top of the fill tower lid. The tower shall be in the right front corner of the tank unless otherwise specified. The tower shall have a 1/4" thick removable polypropylene screen and a stainless steel hinged-type cover. Inside the fill tower, approximately 1.5" down from the top, there shall be an anti-foam fill tube that extends down to the bottom of the tank. A pressure vacuum vent shall be provided in the lid of the fill tower.</p>			

	Yes	No	Comment
Hale HPX200-KBD24 (Or Equal) Portable Pump – Max 265GPM			
Performance: The pump/engine shall be capable of meeting the NFPA 1906 performance ratings of 50 GPM at 150 PSI and 150 GPM at 100 PSI. Typical pump performance from 5-foot draft at sea level shall be 100 GPM at 150 PSI, 175 GPM at 100 PSI and 250 GPM at 50 PSI.			
Pump: The pump body shall be made of anodized alloy aluminum castings coupled together with a stainless-steel band clamp with an O-ring seal which allows quick pump volute removal for servicing. The pump end shall be factory hydrostatically tested to 300 PSI. The impeller shall be bronze. The renewable clearance rings shall be made of bronze to inhibit galvanic corrosion. The impeller shall be 8.75 inches (222.3 mm) in diameter and designed with a sleeve back end to prevent water from coming in contact with the engine shaft. The pump shaft seal shall be an automatically adjusting, maintenance free, mechanical type. The pump body shall be equipped with a petcock drain valve.			
Priming: The priming pump shall be a positive displacement, oil-less rotary vane electric motor driven pump conforming to the requirements of NFPA 1901. The pump body shall be manufactured of heat-treated anodized aluminum for wear and corrosion resistance. The pump shall be capable of producing a minimum 24 inHg vacuum at 2000 feet above sea level. The electric motor shall be a 12 VDC (or 24 VDC) totally enclosed unit. The priming pump shall not require lubrication. The priming pump shall be operated by a single push-pull control valve mounted on the pump operator panel. The control valve shall be of all bronze construction.			
Suction/Discharge: The suction and discharge ports shall be female pipe thread, designed and located to accept applicable hose thread adapters (3" FNPT / 4" Victaulic Suction, 2.5" FNPT Discharge flange).			
Engine: The engine shall be a 4-cycle DIESEL Kubota D902 (Or Equal) radiator liquid cooled design. Engine rating shall be 24.8 BHP at 3600 RPM with a torque of 41.3 lb-ft at 2600 rpm. Engine displacement shall be 898cc and the engine shall be EPA Tier 4 compliant. A 12-volt electric system shall be provided with electric starter and a 40-amp alternator. Engine shall be with USDA approved spark arrestor.			
Pump By-pass/Cooling Line: A 3/8" line will be provided from the pump outlet to the water tank. This line will be equipped with a check valve to prevent vacuum loss during priming. It will also be equipped with a shut-off valve to allow complete blow-down of the plumbing. The line will provide continuous, low-volume cooling flow for pump-and-roll operations if no other discharges are open.			
Electronic Primer: The pump shall be equipped with a 12-volt electric rotary vane oil less primer with PVG valve. The primer shall be capable of drawing at least 20 inches of mercury vacuum in the suction piping. The primer shall be activated by a manual control located on the pump operator's panel that actuates both the primer motor and the priming valve.			
Re-route Engine Oil Drain: A flexible tube with shutoff valve will be provided from the pump engine oil pan to a more easily accessible location at the rear of the unit to allow the pump engine oil to be drained.			

	Yes	No	Comment
Tank to Pump: The suction piping shall consist of a 3" tank to pump line with a 3" flexible rubber suction hose to minimize flex and vibration between the pump and the tank. Between the tank and the pump there shall be a 3" Akron valve. This valve shall remain open to pump from the tank. A check valve shall be provided to prevent accidental pressurization of the water tank through the pump connection. The overboard suction connection shall have a 4" FNST grooved coupling suction connection.			
Tank Fill: There shall be a 1-1/2" valve piped from the discharge manifold as a means for refilling the tank. The valve shall be a quarter turn valve handle and shall be connected to the tank fill port by 1-1/2" high pressure flexible hose.			
2-1/2" Rear Discharge #1: There shall be one (1) 2-1/2" discharge piped from the discharge manifold to the rear of the apparatus. The discharge shall have a 2-1/2" MNST adapter with a cap and chain. The Akron valve shall be controlled at the discharge location.			
1-1/2" Front Crosslay #1: There shall be one (1) 1-1/2" discharge piped from the discharge manifold to the front of the apparatus. The discharge shall have a 1-1/2" MNST adapter with a cap and chain. The Akron valve shall be controlled at the discharge location. Plumbing shall be a minimum of 2".			
Slide-out Tray: A 3/16" aluminum, three (3) sided, "J" shaped slide out tray shall be provided for hose storage area to allow easy loading of the hose off the vehicle. The tray shall be designed to slide out from either side of the vehicle. The sides and floor of the opening shall be lined with Nylatron to assist in the loading of the tray. The tray shall have a cut out on each side of the tray so it may be used as a handle to remove the tray. The handle area shall extend passed the side panel on each end of the tray to allow removal of the tray without getting fingers caught in the latch tray mechanism. A black steel tension type latches shall be provided for the tray to secure the tray in the opening.			
Hose Reel Discharge #1 – Driver Side Hannay EPFF28-23-24 (Or Equal): A hose reel shall be installed on the completed apparatus. The reel shall be supplied with a 1.5" Akron valve controlled at the rear of the apparatus.			
Hose Reel #1: A Hannay compact electric rewind hose reel (Or Equal) shall be provided. The hose reel shall be constructed from steel and painted gray and has the capacity to hold 100' of 1.5" Collapsible Fire Hose. The rewind button shall be positioned in a location convenient to the operator when rewinding the hose.			
Hose Reel Mounting #1: The hose reel shall be mounted on top of the compartment on the rear of the flatbed body. The hose reel shall be mounted side facing.			
Captive Hose Rollers #1: A captive roller arrangement shall be provided and mounted as directed allowing hose to be pulled out in any direction.			
Hose Reel Discharge #2: A second hose reel shall be installed on the completed apparatus. The reel shall be supplied with a 1" Akron valve controlled at the rear of the apparatus.			
Hose Reel #2: A Hannay compact electric rewind hose reel (Or Equal) shall be provided. The hose reel shall be constructed from steel and painted gray and has the capacity to hold either 200' of 3/4" booster hose or 100' of 1" booster hose. The rewind button shall be positioned in a location convenient to the operator when rewinding the hose.			

	Yes	No	Comment
Hose Reel Mounting #2: The hose reel shall be mounted on top of the compartment on the rear of the flatbed body. The hose reel shall be mounted side facing.			
Captive Hose Rollers #2: A captive roller arrangement shall be provided and mounted as directed allowing hose to be pulled out in any direction.			
Booster Reel Frame: Aluminum tubing shall be provided around each booster reel. The frame shall be fabricated from square aluminum tubing with fault panels facing rearward for the upper rear zone C warning and scene lights to be mounted. A crossbar shall be provided between the booster reel frames to provide a mounting surface for the rear arrow stick. Each frame shall be painted all-pro black to match the body compartments.			
Akron 3462 Bumper Turret (Or Equal): The 300gpm rated monitor is to be an all-electric single waterway monitor constructed of lightweight Pyrolite. The monitor shall have cast-in turning vanes in each elbow. The monitor shall have fully enclosed motors and gears with manual overrides for both horizontal and vertical rotation and may be operated simultaneously. The monitor is not to exceed 13 3/16" high and 11 9/16" wide. The vertical travel shall be from 45° below to 90° above horizontal with adjustable stops at -20° and +45°. The horizontal rotation shall be 320° with adjustable stops at ±90°. The control system electronics shall be integrated with the monitor wiring harness. The control system shall use sealed, locking connectors for the monitor and nozzle motors. Two additional sealed, locking connectors shall be supplied for input power/electric valve control and J1939 CAN bus interface. A sealed USB connector shall be provided for updating control system firmware. All electrical connectors shall be minimum IP65 rated. The operator interface shall consist of a CAN bus compatible joystick which will provide up, down, right, left, fog, and stream control of the monitor. The joystick shall have a trigger switch to control an optional electric discharge valve. The monitor shall include a 5' long power/valve harness and 20' long CAN joystick harness.			
FireFox Nozzle (30-60-95-125 GPM) (Or Equal): An electrically controlled nozzle with flows from 30 to 125 gpm (115 to 475 lpm) at an operating pressure of 100 psi (7 bar). The FireFox nozzle comes with either a single fixed flow baffle or an adjustable four setting baffle and is for use with 12 or 24-Volt monitors featuring current limiting, such as the Style 3463 FireFox or 3462 Forestry Monitor.			
Scotty (Or Equal) Around-The-Pump Foam Eductor: A Scotty (Or Equal) around-the-pump foam system shall be provided on the completed unit. The unit shall consist of an eductor and proportioning valve between the inlet and discharge side of the pump. When the system is in operation, it shall draw water flow from the discharge side, route it through the eductor and proportioning valve, draw foam concentrate through the proportioning valve, and provide foam solution back into the inlet side of the pump. Note: When the foam system is in operation, all discharges, including the tank fill, shall be supplied with foam solution. The foam system shall be capable of adjusting the foam concentration up to .5%. When in operation, all discharges from the pump shall be supplied with foam solution. An operational placard shall be provided with the system.			

	Yes	No	Comment
Discharge Check Valve: In addition to the foam system check valve, a 2" full flow check valve shall be provided on the discharge plumbing to isolate all discharges.			
Operator Panel, Municipal – Auxiliary Engine Driven Pump: The rear of the unit shall be enclosed with a "municipal" style panel that completely encloses the rear of the unit. The panel shall be constructed from stainless steel and include a light hood. All plumbing controls shall be accessed at the panel via a mixture of swing handles and push-pulls. A hinged access panel for maintenance shall be provided. If required, the panel shall have openings for ventilation.			
Foam Tank Level Gauge: An Innovative Controls model #3030393-01 (Or Equal), Ultra-Bright LED foam level monitor shall be provided on the pump operator's panel. The level gauge shall contain ten (10) high intensity LEDs on the display in a vertical pattern allowing the full, 3/4, 1/2, 1/4 and refill levels to be easily distinguished at a glance. The display shall use a two-dimensional; two-element lens to refract the light from the LEDs to provide full 180° visibility for the level indications. The foam level indicator shall be driven by a pressure transducer mounted low on the tank that senses static concentrate pressure.			
Pump Engine Fuel Supply: The pump fuel system shall be connected to the chassis fuel tank via an auxiliary fuel pump and tap. The power shall be run through the pump ignition.			
Remote Pump Throttle in Cab: A remote manual pump throttle cable shall be mounted on the cab center console.			
Remote Start/Stop in Cab: Remote Start/Stop Switches for the pump shall be located in the cab.			
Innovative Controls Master Discharge Pressure Gauge in Cab: A single Innovative Controls (Or Equal) 2 1/2" diameter glycerin filled pressure gauge with pulse and vibration dampening shall be provided on the pump panel. The gauge accuracy shall comply with ANSI B40.1 Grade A requirements, temperature range shall be from -40° F to +160° F. Gauges construction shall be a heavy-duty cast brass case. Crystal shall be a molded plexiglass with captive O-ring and secured with a rolled 304 highly polished stainless-steel bezel. Gauges shall have white faces with black lettering and shall include an orange tip pointer for easy readability.			
Innovative Controls SL Plus LED Water Level Gauge: An Innovative Controls model # 3030691-02 SL Plus (Or Equal) Tank Level Monitor System shall be provided on the pump operator's panel. The master display module shall show the tank level using 16 super-bright easy-to-see LEDs. Tank level indication shall be achieved by the appropriate illumination of 4 horizontal rows of LEDs, with 4 LEDs per row. A wide-angle poly carbonate diffusion lens in front of the LEDs shall produce a 180° viewing angle. The electronic display module shall be waterproof and shock resistant being encapsulated in a urethane-based potting compound. The potted display electronics shall be integral to a chrome-plated panel-mount reflector that is secured to the apparatus panel.			

	Yes	No	Comment
<p>Innovative Controls Mini Super-Bright LED Water Level Gauge – Mounted in Cab: An additional Innovative Controls model # 3030698-01 (Or Equal), Super Bright LED water level monitor shall be provided in the cab. The level gauge shall contain five (5) high intensity LEDs on the display in a vertical pattern allowing the full, 3/4, 1/2, 1/4 and refill levels to be easily distinguished at a glance. The display shall use a two-dimensional; two-element lens to refract the light from the LEDs to provide full 180° visibility for the level indications. The gauge shall use a pressure transducer #3030376-01 installed near the bottom of the water tank to determine the correct volume in the tank.</p>			
<p>Foam Tank Level Gauge – Foam Tank “A”: An Innovative Controls model # 3030693-02A (Or Equal) SL Plus Tank Level Monitor System shall be provided on the pump operator's panel. The master display module shall show the tank level using 16 super-bright easy-to-see LEDs. Tank level indication shall be achieved by the appropriate illumination of 4 horizontal rows of LEDs, with 4 LEDs per row. A wide-angle poly carbonate diffusion lens in front of the LEDs shall produce a 180° viewing angle. The electronic display module shall be waterproof and shock resistant being encapsulated in a urethane-based potting compound. The potted display electronics shall be integral to a chrome-plated panel-mount reflector that is secured to the apparatus panel. The gauge shall use a pressure transducer #3030376-01 installed near the bottom of the water tank to determine the correct volume in the tank.</p>			
Apparatus Body			
<p>Apparatus Body Design Construction: The body side and compartment assemblies shall be designed and assembled to provide maximum strength and durability under all operating conditions. Special attention shall be taken to minimize corrosion on all fabricated parts and structural members of the body. All bolt-on components shall be provided with a dissimilar metals isolation barrier to prevent electric corrosion. The body assembly shall be an all-welded configuration and shall be completely isolated from the cab.</p>			
<p>Body and Compartment Fabrication – 3/16” Aluminum: The base body will be of a flatbed design with dimensions of 136” long by 96” wide constructed from aluminum. The platform will be constructed of 6” tall longitudinal sills (minimum thickness of .185”) with 4” tall cross members spanning the full width of the body on 12” centers. The outer rail of the body will be a 6” tall channel with a minimum thickness of .1875”. The outer rail will have square corners and extend around the full perimeter of the body. This will provide a protected area for recess mounting of warning and clearance lights, as well as the fuel fill. The body will be mounted to the chassis frame rails using springer mounts at the front and solid mounts at the rear. The frame will be offset from the chassis frame rails using poly spacers at the front, rear, and middle of the body.</p>			
<p>Headboard: The front of the body will have a framed headboard to support the light bar and to protect the back of the cab. The main frame will be 2” x 4” box extending vertically from the longitudinal sills with a 4” channel to contour the bar to the shape of the cab.</p>			
<p>Rear Tail Skirt: The rear end of the body will be finished with a tail skirt that extends approximately 18 inches below the bottom of the flatbed side rail. The tail skirt will be framed with 4-inch channel and reinforced to support the folding steps. The rearward portion of the skirt will be clad with tread plate unless rear chevron striping is provided.</p>			

	Yes	No	Comment
<p>Under Body Storage Compartment – Driver’s Side Forward of Rear Wheels: The driver’s side under body storage compartment shall be installed below the flatbed forward of the rear wheels. The storage box shall be approximately 40” wide by 20” high by 20” deep with a horizontally hinged fold down tread plate door with thumb latches. The doors shall have a weather seal applied to prevent moisture from entering the compartment.</p>			
<p>Under Body Storage Compartment – Driver’s Side Rearward of Rear Wheels: The driver’s side under body storage compartment shall be installed below the flatbed rearward of the rear wheels. The storage box shall be approximately 20” wide by 20” high by 20” deep with a horizontally hinged fold down tread plate door with a d-ring latch. The doors shall have a weather seal applied to prevent moisture from entering the compartment.</p>			
<p>Under Body Storage Compartment – Officer’s Side Forward of Rear Wheels: The officer’s side under body storage compartment shall be installed below the flatbed forward of the rear wheels. The storage box shall be approximately 40” wide by 20” high by 20” deep with a horizontally hinged fold down tread plate door with thumb latches. The doors shall have a weather seal applied to prevent moisture from entering the compartment.</p>			
<p>Under Body Storage Compartment – Officer’s Side Rearward of Rear Wheels: The officer’s side under body storage compartment shall be installed below the flatbed rearward of the rear wheels. The storage box shall be approximately 20” wide by 20” high by 20” deep with a horizontally hinged fold down tread plate door with a d-ring latches. The doors shall have a weather seal applied to prevent moisture from entering the compartment.</p>			
<p>Elongated Under Body Storage Compartment: A 24” wide by 6” tall by 120” long storage box shall be installed in the center of the body below the side rail. The storage box shall have a tread plate overlap door with trigger latches. This compartment shall be designed for the storage of long-handle tools and / or suction hose.</p>			
<p>Rear Tail Skirt – Flatbed: The rear end of the body will be finished with a tail skirt that extends approximately 18 inches below the bottom of the flatbed side rail. The tail skirt will be framed with 4-inch channel and reinforced to support the folding steps. The rearward portion of the skirt will be clad with tread plate unless rear chevron striping is provided.</p>			
<p>Body Subframe – Aluminum: The body subframe shall be an all-welded configuration constructed from ten (10) 3” x 2-5/16” x 8’ structural aluminum I beams.</p> <p>The rest of the body subframe structure shall be an all-welded configuration utilizing a combination of 4”x 2” 6061-T6 aluminum 1/4” (.250”) wall tubing, 3” x 2” 6061-T6 aluminum 1/4” (.250”) wall tubing, 2” x 2” 6061-T6 aluminum 3/16” (.1875”) wall tubing, 2” x 1” 6061-T6 aluminum 1/8” (.125”) wall tubing, 3” x 1” 6061-T6 aluminum 1/8” (.125”) wall tubing, and 3” x 3/4” (.75”) 6061-T6 aluminum flatbar.</p> <p>The body subframe shall also utilize 2” x 2” 6061-T6 aluminum 1/4” (.25”) angle and 3” x 1.5” 6061-T6 aluminum 1/4” (.25”) c-channel in areas that require additional support or mounting locations. The body subframe shall be designed to totally support the full length, height, and width of the body.</p>			

	Yes	No	Comment
<p>Stepping, Standing, & Walking Surfaces: All stepping, standing, and walking surfaces on the body shall meet NFPA #1901 anti-slip standards. 3/16" (.1875") 3003-H22 aluminum tread plate utilized for stepping, standing, and walking surfaces shall be ALCOA no slip type. Upon request by the Purchaser, the manufacturer shall supply proof of compliance with this requirement.</p>			
<p>Quick Attach Compartment Layout: Three (3) freestanding compartment assemblies shall be mounted on top of each side of the flatbed. Each assembly shall include the doors and the shell. The compartments shall be constructed from aluminum tread plate and shall remain unpainted.</p>			
<p>Driver's Side Compartments: The driver's side of the apparatus body shall be approximately 136" in length, 34" in height and 24" in depth and contain three (3) compartments.</p> <p>L1 - The forward compartment shall be transverse and approximately 28" wide x 34" high.</p> <p>L2 - The middle compartment shall be approximately 58" wide x 34" high x 24" deep.</p> <p>L3 - The rear compartment shall be behind the rear wheels and under the booster reel and approximately 38" wide x 8" high x 24" deep. The compartment shall have a single tread plate overlap drop down door with trigger latches and a weather tight seal.</p>			
<p>Officer's Side Compartments: The officer's side of the apparatus body shall be approximately 136" in length, 34" in height and 24" in depth and contain three (3) compartments.</p> <p>R1 - The forward compartment shall be transverse and approximately 28" wide x 34" high.</p> <p>R2 - The middle compartment shall be approximately 58" wide x 34" high x 24" deep.</p> <p>R3 - The rear compartment shall be behind the rear wheels and under the booster reel and approximately 38" wide x 8" high x 24" deep. The compartment shall have a single tread plate overlap drop down door with trigger latches and a weather tight seal.</p>			
<p>Hose Storage Tray: An aluminum hose tray shall be provided in the open skid body, next to the skid unit. The tray shall be installed longitudinally in the body on top of the wheel well. The tray shall be constructed of 3/16" aluminum and shall be sized to carry 250' of 2-1/2" attack hose. The tray shall extend above the side body compartment (approximately 4") and will have a hinged lid on top to enclose the storage area. The lid shall be constructed of aluminum diamond plate. The ends of the tray shall have a radius finish to protect from damaging hose. A web style netting shall be installed on the end of the tray to keep hose secured in the tray.</p>			
<p>Flatbed Skid Unit Treadplate Compartment Doors: The compartment doors shall be constructed from .3/16" aluminum treadplate and have full length horizontally hinged treadplate lift up style doors with D-ring turn latches. The doors shall be reinforced with C-Channel for rigidity. Each door shall have a weather seal applied to prevent moisture from entering the compartment.</p>			
<p>Compartment Door Gas Shocks: Gas shock type door hold open devices shall be provided for each door.</p>			

	Yes	No	Comment
Coated Fasteners: All exterior fasteners shall be coated stainless steel screws. Screw threads shall be coated with reusable, self-locking, sealing material to provide vibration resistance. Screw heads shall be coated with a sealing element to prevent galvanic corrosion between dissimilar metals. Non-coated screws shall only be provided as part of vendor supplied component installations.			
Compartment Louvers: Ventilation between compartments to atmosphere shall be provided and located to avoid water entry into compartments.			
Rear Step: The rear step shall be fabricated from 3/16" polished aluminum tread plate, and shall be rigidly reinforced. The rear step shall extend 8" past the rear edge of the body, and shall be 96" wide with tapered corners. The rear edge of the step shall be designed to accommodate the rear clearance lights, recessed for protection in the step reinforcement channel. The step tread plate overlay shall be bolted to the step frame for ease of replacement. The rear step shall be painted with All Pro protective coating, black in color.			
Illuminated Grab Handles: All handrails shall be Hansen (Or Equal) 1-1/4" outer diameter, black knurled anodized aluminum extrusion, designed to meet NFPA 1901 requirements. Each grab rail shall have red LED lights that shall be wired to the DOT marker lights and interlocked to illuminate when the parking brake is applied. Molded gaskets shall be installed between the handrail stanchion castings and body surfaces to prevent electrolytic reaction between dissimilar metals and to protect paint.			
Grab Rail Locations: Grab rails shall be provided at the following specified locations. Additional grab rails shall be provided adjacent to any additional steps specified to comply with NFPA 1901. Two (2) vertical rails shall be mounted on the rear edge of the body, one (1) each side. Two (2) 18" horizontal handrails shall be provided and installed one (1) on each side at rear top of body.			
Folding Step(s) – Body Rear Driver Side: One (1) Innovative Controls (Or Equal) large black powder coated lighted folding step(s) (IC-3101370-33-1-1-1-0 LED), with a textured chrome plate finish, shall be provided on driver side body rear to provide NFPA compliant access (maximum 18" height between steps) to an upper horizontal walking surface (compartment cap, dunnage area, fabricated step, or upper body compartments).			
Folding Step(s) – Body Rear Officer Side: One (1) Innovative Controls (Or Equal) large black powder coated lighted folding step(s) (IC-3101370-33-1-1-1-0 LED), with a textured chrome plate finish, shall be provided on officer side body rear to provide NFPA compliant access (maximum 18" height between steps) to an upper horizontal walking surface (compartment cap, dunnage area, fabricated step, or upper body compartments).			
Fender Panels: Flatbed Body: The lower portion of the flat bed body shall have fender panels over and aft of the rear wheel panel area. The panels shall be constructed of 1/8" 5052 smooth aluminum coated with All-Pro textured paint, black in color. The wheel well openings shall be cut out to conform to the wheels.			
Rear Mud Flaps: Heavy duty mud flaps shall be provided behind the rear wheels.			
Painted Rear Tow Eyes: Two (2) painted tow eyes shall be furnished on the rear of the vehicle. The tow eyes shall be made from plate steel and shall be bolted directly to the chassis frame rails with grade 8 bolts and shall extend below the body. The tow eyes shall be smooth and free from sharp edges and have a minimum eyelet hole of 2-1/2". The tow eyes shall be painted.			

	Yes	No	Comment
Trailer Hitch and Receiver: A trailer receiver shall be provided at the rear of the body and shall be constructed from 2 1/2" seamless structural steel tubing fastened to the chassis frame.			
Trailer Connection: A seven (7) round pin connector shall be provided for towing purposes and connected to a Valley Blackbird 32812 (Or Equal) electronic brake controller. The controller shall be capable of supporting 1 to 4 axle trailers (2 to 8 brakes) and shall be mounted in the cab in easy reach of the driver.			
Additional Items Supplied with the Apparatus: <ul style="list-style-type: none"> • One (1) Pint of touch up paint for each color • One (1) Bag of assorted stainless-steel nuts and bolts 			
Compartment Accessories			
Adjustable Shelving: Compartment shelving shall be constructed of 3/16" brush finish aluminum with a 2" upward bend at front and rear, and side supports. Shelving shall be vertically adjustable with spring nuts in aluminum strut channel. Adjustable shelves shall be located as follows: <ul style="list-style-type: none"> • One (1) in the driver side rear high side compartment • Two (2) in the B1 compartment 			
Vertical Dividers: Full height, fixed mounted, vertical compartment dividers shall be fabricated from 3/16" brushed aluminum material. The dividers shall extend the full depth of the specified compartment from the floor to the compartment ceiling. The full height fixed divider(s) shall be located as directed by the fire department.			
Transverse Floor Mounted Roll Out Trays: Transverse, floor mounted roll out trays shall be designed to extend the full body inside width of the specified compartment area and shall be capable of being pulled out of either side compartment. Floor mounted roll-out trays shall consist of heavy duty, roller bearing slide tracks securely fastened to the compartment floor with proper floor reinforcement as needed. The tray shall be fabricated from 3/16" brushed aluminum with a minimum of 2" high flange on each of the four sides to assist in retaining the equipment stored on each tray. Each tray shall have the capacity of a 1000 pound evenly distributed equipment load. The transverse floor mounted roll out trays shall be provided and mounted as directed by the fire department.			
Wheel Chocks: Two (2) ZICO (Or Equal) AC-1-wheel chocks shall be supplied and stored in a compartment as directed by the Fire Department.			
Paint, Preparation, and Finish: The apparatus body shall be painted Sikkens [#COL] (Or Equal). The paint process shall meet or exceed current state regulations concerning paint operations. Pollution control shall include measures to protect the atmosphere, water, and soil. Contractor shall, upon demand, provide evidence that the manufacturing facility is in compliance with State EPA rules and regulations.			
Paint, Preparation, and Finish: The exterior shall have no mounted components prior to painting to assure full coverage of metal treatments and paint to the exterior surfaces of the body. Any vertically or horizontally hinged smooth-plate compartment doors shall be painted separately to assure proper paint coverage on body, door jambs and door edges.			

	Yes	No	Comment
<p>Paint, Preparation, and Finish: Paint process shall feature Sikkens high solid LV products and be performed in the following steps:</p> <ul style="list-style-type: none"> • Corrosion Prevention - all aluminum surfaces shall be pre-treated with the Alodine 5700 (Or Equal) conversion coating to provide superior corrosion resistance and excellent adhesion of the base coat. • Sikkens Sealer/Primer LV (Or Equal) - acrylic urethane sealer/primer shall be applied to guarantee excellent gloss hold-out, chip resistance and a uniform base color. • Sikkens High Solid LVBT650 (Or Equal) Base coat - a lead-free, chromate-free high solid acrylic urethane base coat shall be applied, providing excellent coverage and durability. A minimum of two (2) coats shall be applied. • Sikkens High Solid LVBT650 (Or Equal) Clear coat - high solid LV clear coat shall be applied as the final step in order to ensure full gloss and color retention and durability. A minimum of two (2) coats shall be applied. 			
<p>Paint, Preparation, and Finish: Any location where the material is penetrated after painting, for the purpose of mounting steps, handrails, doors, lights, or other specified components shall be treated at the point of penetration with a corrosion inhibiting pre-treatment (ECK Corrosion Control). The pre-treatment shall be applied to the aluminum sheet metal or aluminum extrusions in all locations where the aluminum has been penetrated. All hardware used in mounting steps, handrails, doors, lights, or other specified components shall be individually treated with the corrosion inhibiting pre-treatment.</p>			
<p>Paint, Preparation, and Finish: After the paint process is complete, the gloss rating of the unit shall be tested with a 20-degree gloss meter. Coating thickness shall be measured with a digital MIL gauge and the orange peel with a digital wave scan device.</p>			
<p>Body Primer and Preparation: All exposed welds shall be ground smooth for final finishing of areas to be painted. The compartments and doors are totally degreased and phosphatized. After final body work is completed, grinding (36 and 80 grit), and finish sanding shall be used in preparation for priming.</p>			
<p>Body Finish: The aluminum body shall remain unpainted. The welds shall be clean and uniform to present a pleasing appearance. The entire body shall be buffed and detailed.</p>			
<p>Underbody Body Paint: The top and underside areas of the complete body assembly shall be painted black using all-pro paint system, prior to the installation of the body on the chassis.</p>			
<p>Natural Compartment Finish: The interior of the compartments shall have a natural finish.</p>			
<p>Bedliner Painted Compartments: The exterior of the six (6) treadplate compartments as well as the hinged tread plate doors shall be painted in black bedliner All-Pro material.</p>			
<p>Single Color Chassis Cab Paint: The commercial cab exterior shall be painted in a single color by the chassis manufacturer with Purchaser's choice of color as available.</p>			
<p>Commercial Cab Paint Finish Guidelines: The chassis shall be painted and detailed as provided from the chassis OEM and shall meet their quality guidelines.</p>			
<p>Wheel Paint: The chassis wheels shall be painted as provided by the commercial chassis manufacturer.</p>			

	Yes	No	Comment
Touch-up Paint: One (1) pint of each exterior color paint for touch-up purposes shall be supplied when the apparatus is delivered to the end user.			
Finalization and Detailing: Prior to delivery of the apparatus, the interior and exterior shall be cleaned and detailed. The finalization process detailing shall include installation of NFPA required labels, checking fluid levels, sealing and caulking required areas of the cab and body, rust proofing, paint touch-up, etc.			
Underbody Anti-corrosion Paint Treatment: Upon completion, the underside of the apparatus, from the pump enclosure-back, shall have anti-corrosion textured paint applied to help inhibit rust and the corrosion process. The Quick Dry Rubberized undercoat paint shall be applied using an air driven spray gun. The paint shall be applied as a minimum to the following areas: body substructure, underside of all body compartments, running board supports and rear step supports. No paint shall be applied directly to the exhaust system or wheel wells.			
Lettering and Striping			
Computer Generated Lettering: The lettering and striping shall be custom designed utilizing state-of-the-art computer software and computerized cutting machines. The manufacturer shall employ a full-time artist/designer to generate all lettering, decals, and striping to meet the requirements of the Fire Department. The artwork for the lettering and striping shall be kept on record by the apparatus manufacturer to allow for ease in duplication for the Fire Department.			
NFPA Required Scotch-Lite Striping: A four (4) inch high "Scotch-Lite" stripe shall be provided. The stripe shall be applied on a minimum of 60 percent of each side of the unit, 60 percent on the rear of the unit and 40 percent on the front of the unit. The Scotch-Lite stripe layout shall be determined by the Fire Department. The Scotch-Lite shall be black in color.			
Rear Chevron Striping: At least 50% of the rear facing vertical surface shall be covered with alternating strips of reflective striping. The striping shall be 6" Diamond Grade Scotch-Lite. The Diamond Grade Scotch-Lite shall be Red and Black in color.			

**EXHIBIT B
KNOX COUNTY PROCUREMENT DIVISION
INSURANCE CHECKLIST
BID NUMBER 3638**

THE CERTIFICATE OF INSURANCE MUST SHOW ALL COVERAGES & ENDORSEMENTS WITH "YES" AND ITEMS 20 TO 23.

REQUIRED:	NUMBER	TYPE OF COVERAGE	COVERAGE LIMITS																																						
YES	1.	WORKERS COMPENSATION	STATUTORY LIMITS OF TENNESSEE																																						
YES	2.	EMPLOYERS LIABILITY	\$100,000 PER ACCIDENT \$100,000 PER DISEASE \$500,000 DISEASE POLICY LIMIT																																						
YES	3.	<p style="text-align: center;">AUTOMOBILE LIABILITY</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>ANY AUTO-SYMBOL (1)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	<input checked="" type="checkbox"/>	ANY AUTO-SYMBOL (1)														<table border="1" style="width: 100%;"> <tr> <td>COMBINE SINGLE LIMIT (Per -Accident)</td> <td style="text-align: center;">\$1,000,000</td> </tr> <tr> <td>BODY INJURY (Per -Person)</td> <td></td> </tr> <tr> <td>BODY INJURY (Per-Accident)</td> <td></td> </tr> <tr> <td>PROPERTY DAMAGE (Per-Accident)</td> <td></td> </tr> </table>	COMBINE SINGLE LIMIT (Per -Accident)	\$1,000,000	BODY INJURY (Per -Person)		BODY INJURY (Per-Accident)		PROPERTY DAMAGE (Per-Accident)																
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YES	4.	<p style="text-align: center;">COMMERCIAL GENERAL LIABILITY</p> <table border="1" style="width: 100%;"> <tr> <td></td> <td>CLAIM MADE</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>OCUR</td> <td>EACH OCCURRENCE</td> <td style="text-align: center;">\$ 1,000,000</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>FIRE LEGAL LIABILITY</td> <td style="text-align: center;">\$ 100,000</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>MED EXP (Per person)</td> <td style="text-align: center;">\$ 5,000</td> </tr> <tr> <td></td> <td colspan="3">GEN'L AGGREGATE LIMITS APPLIES PER</td> <td>PERSONAL & ADV INJURY</td> <td style="text-align: center;">\$ 1,000,000</td> </tr> <tr> <td></td> <td>POLICY</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>PROJECT</td> <td>LOC</td> <td>GENERAL AGGREGATE</td> <td style="text-align: center;">\$ 2,000,000</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>PRODUCTS-COMPLETED OPERATIONS/AGGREGATE</td> <td style="text-align: center;">\$ 2,000,000</td> </tr> </table>		CLAIM MADE	<input checked="" type="checkbox"/>	OCUR	EACH OCCURRENCE	\$ 1,000,000					FIRE LEGAL LIABILITY	\$ 100,000					MED EXP (Per person)	\$ 5,000		GEN'L AGGREGATE LIMITS APPLIES PER			PERSONAL & ADV INJURY	\$ 1,000,000		POLICY	<input checked="" type="checkbox"/>	PROJECT	LOC	GENERAL AGGREGATE	\$ 2,000,000						PRODUCTS-COMPLETED OPERATIONS/AGGREGATE	\$ 2,000,000	LIMITS
	CLAIM MADE	<input checked="" type="checkbox"/>	OCUR	EACH OCCURRENCE	\$ 1,000,000																																				
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					PRODUCTS-COMPLETED OPERATIONS/AGGREGATE	\$ 2,000,000																																			
YES	5.	PREMISES/OPERATIONS	\$1,000,000 CSL BI/PD EACH OCCURRENCE \$2,000,000 ANNUAL AGGREGATE																																						
YES	6.	INDEPENDENT CONTRACTOR	\$1,000,000 CSL BI/PD EACH OCCURRENCE \$1,000,000 ANNUAL AGGREGATE																																						
YES	7.	CONTRACTUAL LIABILITY (MUST BE SHOWN ON CERTIFICATE)	\$1,000,000 CSL BI/PD EACH OCCURRENCE \$1,000,000 ANNUAL AGGREGATE																																						
NO	8.	XCU COVERAGE	NOT TO BE EXCLUDED																																						
YES	9.	UMBRELLA LIABILITY COVERAGE	\$1,000,000.00																																						
		PROFESSIONAL LIABILITY																																							
NO	10.	ARCHITECTS & ENGINEERS	\$1,000,000 PER OCCURRENCE/CLAIM																																						
NO		ASBESTOS & REMOVAL LIABILITY	\$2,000,000 PER OCCURRENCE/CLAIM																																						
NO		MEDICAL MALPRACTICE	\$1,000,000 PER OCCURRENCE/CLAIM																																						
NO		MEDICAL PROFESSIONAL LIABILITY	\$1,000,000 PER OCCURRENCE/CLAIM																																						
YES	11.	MISCELLANEOUS E & O	\$500,000 PER OCCURRENCE/CLAIM																																						
NO	12.	MOTOR CARRIER ACT ENDORSEMENT	\$1,000,000 BI/PD EACH OCCURRENCE UNINSURED MOTORIST (MCS-90)																																						
NO	13.	MOTOR CARGO INSURANCE																																							
NO	14.	GARAGE LIABILITY	\$1,000,000 BODILY INJURY, PROPERTY DAMAGE PER OCCURRENCE																																						
YES	15.	GARAGEKEEPER'S LIABILITY	\$500,000 COMPREHENSIVE \$500,000 COLLISION																																						
NO	16.	INLAND MARINE BAILEE'S INSURANCE	\$																																						
NO	17.	DISHONESTY BOND	\$																																						
NO	18.	BUILDERS RISK	PROVIDE COVERAGE IN THE FULL AMOUNT OF THE CONTRACT UNLESS PROVIDED BY OWNER.																																						
NO	19.	USL&H	FEDERAL STATUTORY LIMITS																																						

20. CARRIER RATING SHALL BE BEST'S RATING OF A-VII OR BETTER OR ITS EQUIVALENT.
21. THE COUNTY SHALL BE NAMED AS AN ADDITIONAL INSURED ON ALL COMMERCIAL, GENERAL LIABILITY, AUTOMOBILE LIABILITY, AND UMBRELLA LIABILITY POLICIES.
22. CERTIFICATE OF INSURANCE SHALL SHOW THE RFP NUMBER AND TITLE.

23. OTHER INSURANCE REQUIRED _____.

INSURANCE AGENT'S STATEMENT AND CERTIFICATION: I HAVE REVIEWED THE ABOVE REQUIREMENTS WITH THE PROPOSER NAMED BELOW.

AGENCY NAME: _____ AUTHORIZING SIGNATURE: _____

PROPOSER'S STATEMENT AND CERTIFICATION: IF AWARDED THE CONTRACT, I WILL COMPLY WITH THE CONTRACT INSURANCE REQUIREMENTS.

PROPOSER NAME: _____ AUTHORIZING SIGNATURE: _____

EXHIBIT C
AMERICAN RESCUE PLAN ACT (ARPA) FUNDS PROJECT REQUIREMENTS & GUIDELINES

The following language will be included in all ARPA funded Contracts and must be included in all Subcontracts:

PROJECT REQUIREMENTS

Awardee agrees to comply with all requirements of Sections 602 and 603 of Social Security Act (“the Act”), regulations adopted by Treasury pursuant to Sections 602(f) and 603(f) of the Act, and guidance issued by Treasury regarding the foregoing. Awardee also agrees to comply with all other applicable federal statues, regulations, and executive orders, and Awardee shall provide for such compliance by other parties in any agreements it enters into with other parties relating to this award. Federal regulations applicable to this award include, without limitation the following:

1. Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards, 2 C.F.R. Part 200, other than such provisions as Treasury may determine are inapplicable to this Award and subject to such exceptions as may be otherwise provided by Treasury. Subpart F – Audit Requirements of the Uniform Guidance, implementing the Single Audit Act, shall apply to this award.
2. Universal Identifier and System for Award Management (SAM), 2 C.F.R. Part 25 and pursuant to which the award term set forth in Appendix A to 2 C.F.R. Part 25 is hereby incorporated by reference.
3. Reporting Subaward and Executive Compensation information, 2 C.F.R. Part 170, pursuant to which the award term set forth in Appendix A to 2 C.F.R. Part 170 is hereby incorporated by reference.
4. OMB Guidelines to Agencies on Governmentwide Debarment and Suspension (Nonprocurement), 2 C.F.R. Part 180 (including the requirement to include a term or condition in all lower tier covered transactions (contracts and subcontracts described in 2 C.F.R. Part 180, subpart B) that the award is subject to 2 C.F.R. Part 180 and Treasury’s implementing regulation at 31 C.F.R. Part 19.
5. Recipient Integrity and Performance Matters, pursuant to which the award term set forth in 2 C.F.R. Part 200, Appendix XII to Part 200 is hereby incorporated by reference.
6. Governmentwide Requirements for Drug-Free Workplace, 31 C.F.R. Part 20.
7. New Restrictions on Lobbying, 31 C.F.R. Part 21.
8. Uniform Relocation Assistance and Real Property Acquisitions Act of 1970 (24 §§ 4601-4655) and implementing regulation.
9. Generally applicable federal environmental laws and regulations.
10. Statues and regulations prohibiting discrimination applicable to this award, include without limitation, the following:
 - a. Title VI of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d et seq.) and Treasury’s implementing regulations at 31 C.F.R. Part 22, which prohibit discrimination on the grounds of race, color, or national origin under programs or activities receiving federal financial assistance;
 - b. The Fair Housing Act, Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§ 3601 et seq.), which prohibits discrimination in housing on the basis of race, color, religion, national origin, sex, familial status, or disability;

- c. Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794), which prohibits discrimination on the basis of disability under any program or activity receiving federal financial assistance;
 - d. The Age Discrimination Act of 1975, as amended (42 U.S.C. §§ 6101 et seq.) and Treasury's implementing regulations at 31 C.F.R. Part 23, which prohibit discrimination on the basis of age in programs or activities receiving federal financial assistance; and
 - e. The Americans with Disabilities Act of 1990, as amended (42 U.S.C. §§ 12101 et seq.), which prohibits discrimination on the basis of disability under programs, activities, and services provided or made available by state and local governments or instrumentalities or agencies thereto.
11. In accordance with 41 U.S.C. § 4712, Awardee may not discharge, demote, or otherwise discriminate against an employee as a reprisal for disclosing information to any of the list of persons or entities provided below, information that the employee reasonably believes is evidence of gross mismanagement of a federal contract or grant, a gross waste of federal funds, an abuse of authority relating to a federal contract or grant, a substantial and specific danger to public health or safety, or a violation of law, rule, or regulation related to a federal contract (including the competition for or negotiation of a contract) or grant.
- a. A member of Congress or a representative of a committee of Congress;
 - b. An Inspector General;
 - c. The Government Accountability Office;
 - d. A Treasury employee responsible for contract or grant oversight or management;
 - e. An authorized official of the Department of Justice or other law enforcement agency;
 - f. A court or grand jury; and/or
 - g. A management official or other employee of the County, contractor, or subcontractor who has the responsibility to investigate, discover, or address misconduct.

Awardee shall inform its employees in writing of the rights and remedies provided under this section, in the predominant native language of the workforce.

12. Pursuant to Executive Order 13043, 62 FR 19217 (April 8, 1997), Awardee should and should encourage its contractors to adopt and enforce on-the-job seat belt policies and programs for their employees when operating company-owned, rented or personally owned vehicles.
13. Pursuant to Executive Order 13513, 74 FR 51225 (October 6, 2009), Awardee should encourage its employees, subrecipients, and contractors to adopt and enforce policies that ban text messaging while driving, and Awardee should establish workplace safety policies to decrease accidents caused by distracted drivers.
14. Awardee agrees to comply with all provisions of Executive Order 11246, Equal Employment Opportunity of September 24, 1965, as amended by Executive Orders 11375 and 12086. Awardee will insert this provision in all contracts and subcontracts for any work covered by this Agreement so that such provisions are binding upon each contractor and subcontractor. Awardee will comply with Title VI of the Civil Rights Act of 1964 (PL 88-352, 42 USC 2000d et seq.) and the Fair Housing Act (42 USC 3601-20).

Awardee shall not discriminate against any employee or applicant for employment because of race, color, creed, religion, sex, age, handicap, disability, ancestry, national origin, marital status, familial status, or any other basis prohibited by applicable law. Awardee shall take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, creed, religion, sex, age, handicap, disability, ancestry, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training including apprenticeship. Awardee agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

Awardee will, in all solicitations or advertisements for employees placed by or on behalf of Awardee; state that all qualified applicants will receive consideration for employment without regard to race, color, creed, religion, sex, age, handicap, disability, ancestry, national origin, marital status, or any other basis prohibited by applicable law.

In the event of Awardee's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or order, this contract may be cancelled, terminated, or suspended in whole or in part and Awardee may be declared ineligible for further government contracts or federally assisted construction contracts.

15. Awardee is prohibited from using funds provided herein or personnel employed in the administration of the program for: political activities; inherently religious activities; lobbying; political patronage; and nepotism activities.
16. **TRAFFICKING:** Awardee will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104), which prohibits grant award recipients or a subrecipient from (1) engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.
17. **PROCUREMENT:** Awardee shall comply with current County policy concerning the purchase of equipment and shall maintain inventory records of all non-expendable personal property as defined by such policy as may be procured with funds provided herein. All program assets (unexpended program income, property, equipment, etc.) shall revert to the County upon termination of this Agreement.
18. **FEDERAL FUNDING ACCOUNTABILITY AND TRANSPARENCY ACT:** The Federal Funding Accountability and Transparency Act (FFATA) of 2006 requires information on Federal awards be made public using the FFATA Subaward Reporting System (FSRS) reporting tool. The County will report subcontracts under Federally-awarded contracts greater than or equal to \$30,000.

PROVISIONS OF THE HATCH ACT

Awardee agrees to comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

CONFLICT OF INTEREST

Awardee understands and agrees it must maintain a conflict of interest policy consistent with 2 C.F.R. § 200.318(c) and that such conflict of interest policy is applicable to each activity funded under this award. Awardee and subrecipients must disclose in writing to County any potential conflict of interest affecting the awarded funds in accordance with 2 C.F.R. § 200.112; which includes (but is not limited to) the following:

1. Awardee shall maintain a written code or standards of conduct that shall govern the performance of its officers, employees, family members, or consultants engaged in the award and administration of contracts supported by Federal funds.
2. No employee, officer or agent of the Awardee shall participate in the selection, or in the award, or administration of, a contract supported by Federal funds if a conflict of interest, real or apparent, would be involved.
3. No covered persons who exercise or have exercised any functions or responsibilities with respect to Treasury assisted activities, or who are in a position to participate in a decision-making process or gain inside information with regard to such activities, may obtain a financial interest in any contract, or have a financial interest in any contract, subcontract, or Agreement with respect to the assisted activity, either for themselves or those with whom they have business or immediate family ties, during their tenure or for a period of one (1) year thereafter. For purposes of this paragraph, a "covered" person includes any person who is an employee, agent, immediate family member, consultant, officer, or elected or appointed official of the County, Awardee, or any designated public agency.

The County agrees to incorporate, or cause to be incorporated, like language prohibiting such interest in all contracts and subcontracts hereunder.

LOBBYING RESTRICTIONS

Awardee certifies that, to the best of its knowledge and belief:

No Federal appropriated funds have been paid or will be paid, by or on behalf of it, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan or cooperative agreement.

If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, loan, grant or cooperative agreement, it will complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions; and

It will require that the language of this paragraph be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, United States Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT: For Agreements over \$150,000, contracts must contain a provision requiring Awardees to comply with the Clean Air Act and the Federal Water Pollution Control Act. If applicable, contracts must contain a provision that requires the Awardee to agree to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. §§ 7401-7671q.) and the Federal Water Pollution Control Act as amended (33 U.S.C. §§ 1251-1387).

SPECIAL TERMS AND CONDITIONS

Any publications produced with funds from this award must display the following language: "This project [is being] [was] supported in whole or in part, by federal award number 21.027 awarded to Knox County by the U.S. Department of the Treasury."