



CITY OF SAN ANTONIO
Finance Department, Purchasing Division

REQUEST FOR OFFER (“RFO”) NO.: 6100018592

SAFD WATER TANKER/PUMPER TRUCKS

Date Issued: NOVEMBER 5, 2024

RESPONSES MUST BE RECEIVED **NO LATER** THAN:
10:00 AM, CENTRAL TIME, NOVEMBER 13, 2024

Responses may be submitted by any of the following means:

Electronic submission through the Portal

Electronic submission by e-mail

Bid Bond: None Performance Bond: None Payment Bond: None Other: None

See Supplemental Terms & Conditions for information on these requirements.

Affirmative Procurement Initiative: None

DBE / ACDBE Requirements: None

See Instructions for Offerors and Attachments sections for more information on these requirements.

Pre-Submittal Conference: None

Staff Contact Person:

Jody De La Rosa

Procurement Specialist II

Email: jody.delarosa@sanantonio.gov

Phone Number: 210-207-0543

002 - TABLE OF CONTENTS

002 - TABLE OF CONTENTS	2
003 - INSTRUCTIONS FOR OFFERORS	3
004 - SPECIFICATIONS / SCOPE OF SERVICES	8
005 - SUPPLEMENTAL TERMS & CONDITIONS	28
006 - GENERAL TERMS & CONDITIONS	31
007 - SIGNATURE PAGE	37
008 - STANDARD DEFINITIONS	38
009 – ATTACHMENTS	39

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003 - INSTRUCTIONS FOR OFFERORS

Submission of Offers.

Submission of Offer's. ***Offer(s) maybe submitted through the Portal or by E-mail**

Submission of Electronic Offer's. Submit one offer electronically by the due date provided on the Cover Page. All times stated herein are Central Time. Any offer or modification received after the time and date stated on the Cover Page shall be rejected. All forms in this solicitation which require a signature must have a signature affixed thereto, either by manually signing the document, prior to scanning it and uploading it with your submission, or affixing it electronically.

Submission of Offers by Email. Submit one document by email to the Staff Contact Person, by the due date provided on the Cover Page. All times stated herein are Central Time. Any offer or modification received after the time and date stated on the Cover Page shall be rejected.

Modified Offer. Offer's may be modified provided such modifications are received prior to the time and date set for submission of Offer, and submitted in the same manner as original offer "**electronically**". Electronic offer's, a modified offer will automatically replace a prior offer submission. See below for information on submitting Alternate Offer's.

City shall not be responsible for lost or misdirected offers or modifications.

For electronic offers, Offeror's electronic submission, with accompanying affirmations, constitutes a binding signature for all purposes.

Offerors are cautioned that they are responsible for the security of their log on ID and password, since unauthorized use could result in Offeror's being held liable for the submission.

Certified Vendor Registration Form. If Offeror has not completed the City's Certified Vendor Registration (CVR) Form, Offeror is required to do so prior to the due date for submission of offers. The CVR form may be accessed at <http://www.sanantonio.gov/purchasing/>. Offerors must identify the correct name of the entity that will be providing the goods and/or services under the contract. No nicknames, abbreviations (unless part of the legal title), shortened or short-hand names will be accepted in place of the full, true and correct legal name of the entity.

Alternate Offers. Alternate offers may be allowed at the sole discretion of City.

Electronic Alternate Offers Submitted Through the Portal. All alternate offers are recorded with original offers when submitted electronically.

Catalog Pricing. (This section applies to offers using catalog pricing, unless this is a cooperative purchase.)

The offer will be based on manufacturer's latest dated price list(s). Said price list(s) must denote the manufacturer, latest effective date and price schedule.

Offerors shall be responsible for providing one copy of the manufacturer's catalog for each manufacturer for which an offer is submitted. Offeror shall provide said catalog at the time of submission of its offer. Manufacturers' catalogs may be submitted in any of the following formats: paper copy or CD ROM for offer(s) submitted on paper, or PDF file for offers submitted electronically.

Offerors may submit price lists other than the manufacturer's price list. Said price list(s) must denote the company name, effective date and price schedule. These price lists are subject to approval of the City Finance Department-Purchasing Division.

Specified items identified herein, if any, are for overall offer evaluation and represent the commonly and most used items. Net prices entered for those specified items must reflect the actual price derived from quoted price list less all discounts offered.

Restrictions on Communication.

Offers are prohibited from communicating with: 1) City officials, as defined by §2-62 of the City Code of the City of San Antonio, regarding the RFO or offers from the time the RFO has been released until the contract is posted for consideration as a City Council agenda item during a meeting designated as an "A" session; and 2) City employees from

the time the RFO has been released until the contract is awarded. These restrictions extend to “thank you” letters, phone calls, emails and any contact that results in the direct or indirect discussion of the RFO and/or offer submitted by offeror. Violation of this provision by offeror and/or its agent may lead to disqualification of Offeror’s offer from consideration.

Exceptions to the restrictions on communication with City employees include:

Offerors may ask verbal questions concerning this RFO at the Pre-Submittal Conference.

Offerors may submit written questions, or objections to specifications, concerning this RFO to the Staff Contact Person listed on the Cover Page on or before one calendar days prior to the date offers are due. Questions received after the stated deadline will not be answered. Questions submitted and the City’s responses will be posted with this solicitation. All questions shall be sent by e-mail or through the portal.

Offerors may provide responses to questions asked of them by the Staff Contact Person after responses are received. The Staff Contact Person may request clarification to assist in evaluating the Offeror’s response. The information provided is not intended to change the offer response in any fashion. Such additional information must be provided within two business days from City’s request.

Offerors and/or their agents are encouraged to contact the Small Business Office of the International and Economic Development Department for assistance or clarification with issues specifically related to the City’s Small Business Economic Development Advocacy (SBEDA) Program policy and/or completion of the SBEDA form (s), if any. The point of contact is identified on the Cover Page. Contacting the Small Business Office regarding this RFO after the due date is not permitted. If this solicitation contains Affirmative Procurement Initiatives, it will be noted on the Cover Page.

If this solicitation contains DBE/ACDBE requirements, offeror and/or their agents may contact the Aviation Department’s DBE/ACDBE Liaison Officer for assistance or clarification with issues specifically related to the DBE/ACDBE policy and/or completion of the required form(s). Point of contact is Ms. Barbara Patton, who may be reached via telephone at (210) 207-3592 or through e-mail at Barbara.Patton@sanantonio.gov. Offerors and/or their agents may contact Ms. Patton at any time prior to the due date for submission of offer. Contacting her or her office regarding this RFO after the offer due date is not permitted. If this solicitation contains DBE/ACDBE requirements, it will be noted on the Cover Page.

Pre-Submittal Conference.

If a Pre-Submittal Conference is scheduled, it will be held at the time and place noted on the Cover Page. Offerors are encouraged to prepare and submit their questions in writing in advance of the Pre-Submittal Conference in order to expedite the proceedings.

Pre-Submittal Conference participation is optional, but highly encouraged.

Respondents who join the WebEx Pre-Bid Conference are highly encouraged to email the solicitation’s Staff Point of Contact confirming Respondent attendance and participation through the WebEx.

Any oral response given at the Pre-Bid Conference that is not confirmed in writing and posted with this solicitation shall not be official or binding on the City.

To request an interpreter for the deaf or other assistance, call (210) 207-7245 Voice/TTY. Interpreters for the deaf must be requested at least 48 hours prior to the meeting.

Changes to RFO.

Changes to this RFO made prior to the offer due date shall be made directly to the original RFO. Changes are captured by creating a replacement version each time the RFO is changed. It is Offeror’s responsibility to check for new versions until the offer due date. City will assume that all offers received are based on the final version of the RFO as it exists on the day offers are due.

No oral statement of any person shall modify or otherwise change or affect the terms, conditions or specifications stated in the RFO.

Preparation of Offers.

All information required by the RFO must be furnished or the offer may be deemed non-responsive and rejected. Any ambiguity in the offer as a result of omission, error, unintelligible or illegible wording shall be construed in the favor of City.

Correct Legal Name. If an Offeror is found to have incorrectly or incompletely stated the name of the entity that will provide goods and/or services, the offer may be rejected.

Line Item Offers. Any offer that is considered for award by each unit or line item must include a price for each unit or line item for which Offeror wishes to be considered. All offers are awarded on the basis of low line item, low total line items, or in any other combination that serves the best interest of City, unless City designates this solicitation as an "all or none" offer in the Supplemental Terms & Conditions.

All or None Offers. Any offer that is considered for award on an "all or none" basis must include a price for all units or line items. In an "All or None" offer, a unit price left blank shall result in the offer being deemed nonresponsive and disqualified from consideration. An "All or None" offer is one in which City will award the entire contract to one offeror only.

Delivery Dates. Proposed delivery dates must be shown in the offer form where required and shall include weekends and holidays, unless specified otherwise in this RFO. Proposed delivery times must be specific. Phrases such as "as required", "as soon as possible" or "prompt" may result in disqualification of the offer. Special delivery instructions, if any, may be found in the Specifications / Scope of Services section of this document, or in the Purchase Order.

Tax Exemption. The City of San Antonio is exempt from payment of federal taxes, and State of Texas limited sales excise and use taxes. Offerors must not include such taxes in offer prices. An exemption certificate will be signed by City where applicable upon request by Offeror after contract award.

Samples, Demonstrations and Pre-award Testing. If requested by City, Offeror shall provide product samples, demonstrations, and/or testing of items offered to ensure compliance with specifications prior to award of the contract. Samples, demonstrations and/or testing must be provided within 7 calendar days of City's request. Failure to comply with City's request may result in rejection of an offer. All samples (including return thereof), demonstrations, and/or testing shall be at Offeror's expense. Samples will be returned upon written request. Requests for return of samples must be made in writing at the time the samples are provided. Otherwise, samples will become property of City at no cost to City. Samples that are consumed or destroyed during demonstrations or testing will not be returned.

Estimated Quantities for Annual Contracts.

Designation as an "annual" contract is found in the contract's title on the Cover Page of this document. The quantities stated are estimates only and are in no way binding upon City. Estimated quantities are used for the purpose of evaluation. City may increase or decrease quantities as needed. Where a contract is awarded on a unit price basis, payment shall be based on the actual quantities supplied.

Offerors shall thoroughly examine the drawings, specifications, schedule(s), instructions and all other contract documents.

Offerors shall make all investigations necessary to thoroughly inform themselves regarding plant and facilities for delivery of material and equipment, or conditions and sites/locations for providing goods and services as required by this RFO. No plea of ignorance by Offeror will be accepted as a basis for varying the requirements of City or the compensation to Offeror.

Confidential or Proprietary Information. All offers become the property of City upon receipt and will not be returned. Any information deemed to be confidential by Offeror should be clearly noted; however, City cannot guarantee that it will not be compelled to disclose all or part of any public record under the Texas Public Information Act, since information deemed to be confidential by Offeror may not be considered confidential under Texas law, or pursuant to a Court order. Pricing may be tabulated and posted to City's website, so shall not be considered proprietary or confidential.

Costs of Preparation. Offeror shall bear any and all costs that are associated with the preparation of the Offer, attendance at the Pre-Submittal conference, if any, or during any phase of the selection process.

Rejection of Offers.

City may reject any and all offers, in whole or in part, cancel the RFO and reissue the solicitation. City may reject an offer if:

Offeror misstates or conceals any material fact in the offer; or

The offer does not strictly conform to law or the requirements of the offer;

The offer is conditional; or

Any other reason that would lead City to believe that the offer is non-responsive or Offeror is not responsible.

City, in its sole discretion, may also waive any minor informalities or irregularities in any offer, such as failure to submit sufficient offer copies, failure to submit literature or similar attachments, or business affiliation information.

Changes to Offer Form. Offers must be submitted on the forms furnished. Offers that change the format or content of City's RFO may be rejected.

Withdrawal of Offers. Offers may be withdrawn prior to the due date. Offers submitted electronically may be withdrawn electronically.

Evaluation and Award of Contract.

City reserves the right to make an award on the basis of City's best interests. Award may also be made based on low line item, low total line items, or in any other combination that serves the best interest of City, unless City designates this solicitation as an "all or none" offer in the Supplemental Terms & Conditions.

A written award of acceptance, manifested by a City Ordinance, and a purchase order furnished to Offeror results in a binding contract without further action by either party. Offeror must have the Purchase Order before making any delivery.

City reserves the right to delete items prior to the awarding of the contract, and purchase said items by other means.

Inspection of Facilities/Equipment. Depending on the nature of the RFO, Offerors' facilities and equipment may be a determining factor in making the offer award. All Offerors may be subject to inspection of their facilities and equipment.

Prompt Payment Discount.

Provided Offeror meets the requirements stated herein, City shall take Offeror's offered prompt payment discount into consideration. The evaluation will not be based on the discount percentage alone, but rather the net price as determined by applying the discount to the offer price, either per line item or total offer amount. However, City reserves the right to reject a discount if the percentage is too low to be of value to City, all things considered. City may also reject a discount if the percentage is so high as to create an overly large disparity between the price City would pay if it is able to take advantage of the discount and the price City would pay if it were unable to pay within the discount period. City may always reject the discount and pay within the 30 day period, at City's sole option.

City will not consider discounts that provide fewer than 10 days to pay in order to receive the discount.

For example, payment terms of 2% 5, Net 30 will NOT be considered in offer evaluations or in the payment of invoices. However, payment terms of 2% 10, Net 30 will result in a two percent reduction in the offer price during offer evaluation, and City will take the 2% discount if the invoice is paid within the 10 day time period.

Prohibited Financial Interest.

The Charter of the City of San Antonio and the City of San Antonio Code of Ethics prohibit a City officer or employee, as those terms are defined in the Code of Ethics, from having a direct or indirect financial interest in any contract with City. An officer or employee has a "prohibited financial interest" in a contract with City or in the sale to City of land materials, supplies or service, if any of the following individual(s) or entities is a party to the contract or sale:

- A City officer or employee; his or her spouse, sibling, parent, child, or other family member within the first degree of consanguinity or affinity;

- An entity in which the officer or employee, or his or her parent, child or spouse directly or indirectly owns (i) 10% or more of the voting stock or shares of the entity, or 10% or more of the fair market value of the entity; or
- An entity in which any individual or entity listed above is (i) a subcontractor on a City contract, (ii) a partner or (iii) a parent or subsidiary entity.

By submitting a proposal, Respondent warrants and certifies, and a contract awarded pursuant to this RFO is made in reliance thereon, that it, its officers, employees and agents are neither officers nor employees of the City.

State of Texas Conflict of Interest:

Questionnaire (Form CIQ). Chapter 176 of the Texas Local Government Code requires that persons, or their agents, who seek to contract for the sale or purchase of property, goods, or services with the City, shall file a completed Form CIQ with the City Clerk if those persons meet the requirements under 176.006(a) of the statute.

By law this questionnaire must be filed with the City Clerk not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Texas Local Government Code.

Form CIQ is available from the Texas Ethics Commission by accessing the following web address:

<https://ethics.state.tx.us/forms/conflict/>

In addition, please complete the **City's Addendum to Form CIQ (Form CIQ-A)** and submit it with Form CIQ to the Office of the City Clerk. The Form CIQ-A can be found at:

<http://www.sanantonio.gov/atty/ethics/pdf/OCC-CIQ-Addendum.pdf>

When completed, the CIQ Form and the CIQ-A Form should be submitted together by mail to the Office of the City Clerk. Please mail to:

Office of the City Clerk, P.O. Box 839966, San Antonio, TX 78283-3966.

Do not include these forms with your offer. The Purchasing Division will not deliver the forms to the City Clerk for you.

004 - SPECIFICATIONS / SCOPE OF SERVICES

- 4.1** **SCOPE:** This is a Request For Offer to purchase two (2) Fire Apparatus Water Tanker/Pumper Trucks (BXT Tankers) in support of public safety. These Water Tankers will be utilized by the San Antonio Fire Department to transport water from streams, lakes, or hydrants to a fire scene. These Water Tankers will be purchased in accordance with the Texas local government purchasing BuyBoard Cooperative Agreement utilizing Contract Agreement Number 746-24 through Siddons-Martin Emergency Group. The purchase of this unit will comply with all the codes and standards of the National Fire Protection Association (NFPA).
- 4.2** **GENERAL CONDITIONS:** The following general conditions will apply to all items within this bid unless specifically excluded within any item.
- 4.2.1** City of San Antonio reserves the right to increase or decrease quantity of vehicles being purchased up to the production "cut-off" date submitted on the bid for the particular item, depending on availability of funds. Prices may not be increased during this period; however, the City should benefit from any price decrease. Additional units may be purchased on an "as needed" basis. Vendor is required to notify the City of all production "cut-off" dates necessary for order submission. Vehicle must be year model 2025 or newer.
- 4.2.2** All components shall be new, unused, standard production model, and equipment is to be serviced in accordance with manufacturer's recommended pre-delivery check list, and ready for operation upon delivery, and shall include all manufacturers' standard equipment, unless otherwise specified or replaced herein. Equipment offered under the below listed specifications will be considered unacceptable if for any reason its long term availability on the U.S. Market or in the local area is in doubt.
- 4.2.3** All items bid must include the maximum standard manufacturer's warranty available, including both parts and labor, for all components and attachments. All warranties must be for a minimum period of twelve months. The warranty shall begin on the date the vehicle is placed in service, not on the delivery date. Vendor shall attach a copy of the manufacturer's warranty to Vendor's bid. City will notify Vendor by letter of the in-service date for each item by serial number. Such parts and service must be available within Bexar County from and by a factory authorized dealer. Bids submitted by dealers located outside Bexar County must include bidder's signed agreement with a factory authorized dealer located within Bexar County, providing warranty, parts and service for items bid.
- 4.2.4** **Delivery:** All deliveries are to be made inside the City limits of San Antonio. Vendor must deliver equipment to the following address:
- City of San Antonio,
Southeast Service Center,
1318 SE Loop 410, BLDG 6, Gate 5
San Antonio, TX 78220
Attn: Acquisitions
- 4.2.5** Delivery to a non-specified location will result in non-acceptance of the equipment by the City. All deliveries must be pre-arranged with a minimum 24-hour notification, NO EXCEPTIONS. Vehicles will be accepted 8:00 A.M. to 3:00 P.M. CST. Vehicles with more than 1000 miles accumulated on the odometer will not be accepted. All vehicles are required to have a full tank(s) when delivered to City specified location.
- 4.2.6** Vehicles will be anticipated for quick delivery. Upon contract award, vendor shall provide written acknowledgement of order placement and supply copy of build sheet and guaranteed delivery date of completed unit. A 30 day or longer delay may cause cancellation of order at the ordering department's discretion. Electrical wiring schematics that include lighting and air conditioning systems for body shall be provided at time of delivery. Electrical wiring schematics shall be provided in paper and electronic format.
- 4.2.7** **Literature and Equipment Manuals** – Vendor shall furnish four complete sets per vehicle type, of the following: Parts Manual, Maintenance Manual, Service Manual, and Operators Manual or USB driver per model of all equipment, accessories, and components. Vendor shall furnish four complete sets of detailed literature and specifications of each vehicle type upon contract award.

- 4.2.8** Vehicles shall be delivered with dealer temporary license plates/tags, invoice with reference to the purchase order, State of Texas Vehicle Inspection Report in the glove box, a Manufacturer's Statement of Origin, vehicle weight slips, Incomplete Vehicle Certificates, and completed TX DMV form 130-U for vehicles with GVWR over 11,000lbs. Omission of any of these items shall delay payment and acceptance. Vehicles supplied with GVWR of 11,000 lbs. or less must include registration fees in final bid price; and coordinate exempt license plate application and registration with Building & Equipment prior to submission to the State of Texas and/or local tax assessor collector office.
- 4.2.9** **Prebuild/Final Meeting:** A meeting will be held with the fire department apparatus committee prior to start of any wiring or construction to review and clarify all installations. This will take place at a mutually agreed upon time. Once units are complete the vendor will schedule a final review of the vehicles prior to delivery. Final review will be performed within seven business days of notification as to not delay delivery.
- 4.2.10** All bodies and components in this bid must be installed in accordance with the appropriate complete Vehicle Data Manual. Certification of compliance must be posted on the left door post of the vehicle. Except for manufacturer's data plates (maximum 4" x 6"), vendor's or manufacturer's identifying markings (decals and plates) shall not be applied to the vehicle or mounted components. Installation must be completed in compliance with Federal Motor Vehicle Department of Transportation Standards and Texas State Highway requirements. Installation of body and accessories on City furnished vehicles must be accomplished by drilling holes in the frame. Welding on or cutting of frame is not authorized forward of the rear spring hanger or support. Vendor is responsible for the relocation of any truck components to facilitate installation of the body and equipment. Such relocation must be included as part of the basic bid. No dealership nameplates, markings or decals will be permitted on the vehicle.
- 4.2.11** **Convenience Features:** Vehicle shall be equipped with power adjustable steering seats; intermittent wipers; automatic-off headlights. Vehicle must be equipped at minimum with the factory Air Conditioning/Heater/Defroster (maximum capacity cooling system offered by manufacturer), full headliner, minimum OEM AM/FM radio, integrated wireless phone capabilities, power steering, power ABS brakes, power windows, power door locks, and manual tilt steering wheel. All units shall be equipped with steering column mounted gear selector, unless otherwise specified. Unit shall have a minimum three keyless remotes (fobs) and shall have a minimum of three sets of keys, unless vehicle utilizes a push button ignition system, then a minimum of three keyless remote fobs are required.
- 4.2.12** Truck shall meet FFPA 1906 standards for Wildland Fire Apparatus for Stability, Roadability, Carrying Capacity, and Pump-and-Roll.
- 4.2.13** All accessories and equipment shall be OEM. All equipment provided must be rated by the manufacturer as low emission on all models available.
- 4.2.14** Any diesel engine being bid must conform to latest NOx EPA and GHG emission standard in effect at the time of offer. Vendor must supply a copy of the latest Emissions Certificate of Conformity for the vehicles bid. Only engines using selective catalytic reduction (SCR) technology will be accepted.
- 4.2.15** **SILENCE OR ERROR OF SPECIFICATIONS:** The apparent omission or error of specification as to any detailed description concerning any point shall be regarded as meaning that only the best commercial practice is to prevail and only the material and workmanship of the first quality are to be used. Proof of specification compliance will be the responsibility of the awarded respondent.

4.3

ITEM	QUANTITY	DESCRIPTION
1	2	Fire Apparatus Water Tanker/Pumper Trucks (DXT Tankers)

SPECIFICATIONS:

- 4.3.1.** **CHASSIS:** The chassis will be a Freightliner, Model M2, 106 Conventional Chassis, supplied with the following equipment:
- 4.3.2.** **WHEELBASE:** The wheelbase of the vehicle will be 184.

- 4.3.3. GVWR RATING:** The gross vehicle weight rating will be 45600.
- 4.3.4. FRAME:** The frame rails will be formed from 120,000 psi yield, heat treated alloy steel.
- 4.3.4.1. FRAME LINER:** 0.25" inner frame reinforcement will be provided.
 - 4.3.4.2.** The frame section properties will be:
 - 4.3.4.3.** Section Modulus: 26.50 cubic inch, per rail
 - 4.3.4.4.** RBM: 3,200,000 pounds feet per inch, per rail
 - 4.3.4.5.** Yield Strength: 120,000 pounds per square inch, per rail
- 4.3.5. FRONT AXLE:** Front axle will be an "I" beam type, made of forged steel. It will be a Meritor MFS-16-143A, with a ground rating capacity of 16,000 pounds. Suspension or other components may limit the actual GAWR.
- 4.3.6. FRONT SUSPENSION** shall be spring mounted.
- 4.3.6.1.** Capacity at Ground: 14,600 lb
 - 4.3.6.2.** Shock Absorbers: Double Acting
 - 4.3.6.3.** Shock absorbers will be provided on the front axle.
- 4.3.7. TIRES, FRONT:** Front tires will be Michelin, 12R22.50, radial tires with a tread pattern suitable for the steering axle position. The tire capacity will meet or exceed the capacity of the axle and/or suspension.
- 4.3.8. WHEELS, FRONT:** Wheels for the front axle will be 22.50" x 8.5" steel disc, ten (10)-hole pattern.
- 4.3.9. REAR AXLE:** The single reduction rear axle will be a Merito, Model RS-30-185, with a ground rating capacity of 31,000 lb. The brake chambers will be forward mounted, and the brakes will be 16.50" x 7.00", S-Cam type.
- 4.3.10. PARKING BRAKE:** The parking brake will be spring set and located on the rear axle service brake.
- 4.3.11. REAR AXLE RATIO:** A rear axle ratio will be furnished to allow the vehicle to reach a top speed of 60 MPH.
- 4.3.12. REAR SUSPENSION:** The rear suspension will be spring mounted 11 leaf, 60.00" x 3.00" with a capacity at ground level of 31,000 lbs. Auxiliaries will be included.
- 4.3.13. TIRES, REAR:** Rear tires will be Michelin 315/80R22.50 radial tires with traction tread pattern suitable for the drive axle position. The tires will meet or exceed the weight rating of the axle and/or suspension.
- 4.3.14. WHEELS, REAR :** The rear wheels will be 22.50" x 9.00" steel disc with a ten (10)-hole pattern.
- 4.3.15. TIRE PRESSURE MANAGEMENT:** There will be a VECSAFE LED tire alert pressure management system provided that will monitor each tire's pressure. A chrome plated brass sensor will be provided on the valve stem of each tire for a total of six (6) tires.
- 4.3.15.1.** The sensor will calibrate to the tire pressure when installed on the valve stem for pressures between 20 and 120 psi. The sensor will activate an integral battery-operated LED when the pressure of that tire drops eight (8) psi.
 - 4.3.15.2.** Removing the cap from the sensor will indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED will immediately start blinking.
- 4.3.16. COVERS, LUG NUT, CHROME:** Chrome lug nut covers will be supplied on front and rear wheels.
- 4.3.17. MUD FLAPS:** Mud flaps with a Pierce logo will be installed behind the front and rear wheels.
- 4.3.18. Wheel Chocks:** One Set of Zico yellow brand will be mounted on bracket. Location TBD.

- 4.3.19. ANTI-LOCK BRAKE SYSTEM** - The vehicle will be equipped with a Wabco, model 4S/4M, four (4) channel anti-lock braking system. The ABS will provide anti-lock braking control on both the front and rear wheels. It will be a digitally controlled system that utilizes microprocessor technology to control the anti-lock braking system. Each wheel will be monitored by the system. When any particular wheel begins to lockup, a signal will be sent to the control unit. This control unit then will reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system will eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control.
- 4.3.19.1.** The system will include Automatic Traction Control (ATC).
- 4.3.19.2.** The system will include Electronic Stability Control (ESC). When instability is detected, the ESC system will automatically apply brakes to individual wheels (with no intervention from the driver) and may also reduce engine torque to help keep the vehicle on track.
- 4.3.20. FRONT BRAKES:** The front brakes will be S-Cam, 16.50" x 6.00". The front brakes will be provided with Merito automatic slack adjusters.
- 4.3.21. AIR COMPRESSOR, BRAKE SYSTEM:** The air compressor will be a Wabco with 18.7 cubic feet per minute output.
- 4.3.22. AIR DRYER:** A Bendix AD-IP air dryer with a heater will be provided.
- 4.3.23. AIR INLET:** A single air inlet with male coupling will be provided. It will allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet will be located in the driver side lower step well of cab. A check valve will be provided to prevent reverse flow of air. The inlet will discharge into the "wet" tank of the brake system. A mating female coupling will also be provided with the loose equipment.
- 4.3.24. ENGINE:** Cummins diesel engine 6.7 Liters capable of 360 HP with peak torque of 800 lbft.
- 4.3.24.1.** ENGINE ACCESSORIES
- 4.3.24.2.** Air Cleaner: Dry type, with restriction indicator in cab
- 4.3.24.3.** Fuel Filters
- 4.3.24.4.** Governor: Limiting speed type
- 4.3.24.5.** Lube Oil Cooler
- 4.3.24.6.** Lube Oil Filter: Full flow
- 4.3.24.7.** Starting Motor: 12-volt
- 4.3.24.8.** RADIATOR
- 4.3.24.9.** Pressurized System, Tube and Fin
- 4.3.24.10.** Deaeration Tank and Sight Glass
- 4.3.24.11.** Anti-Freeze Protection -34 Degrees Fahrenheit
- 4.3.25. HIGH IDLE** - A high idle switch will be provided on the instrument panel inside the cab. Activating the switch will cause the vehicle to automatically maintain a preset engine rpm. The high idle switch will be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light will be provided adjacent to the switch. The light will be labeled "OK To Engage High Idle."
- 4.3.26. ENGINE EXHAUST BRAKE** - An exhaust brake with an integral variable geometry turbo charger (VGT) will be provided. The control will be located on the instrument panel within easy reach of the driver.
- 4.3.27. FUEL/WATER SEPARATOR** - An Alliance fuel/water separator will be provided on the chassis.
- 4.3.28. AIR INTAKE, w/EMBER SEPARATOR** - The air inlet will be equipped with a stainless-steel mesh to separate water and burning embers from the air intake system such that particulate matter larger than 0.039" (1.0 mm) in diameter cannot reach the air filter element. This will comply with NFPA 1901 and 1906 standards.

- 4.3.29. EXHAUST SYSTEM:** The exhaust system will include a diesel particulate filter (DPF) and a selective catalytic reduction (SCR) device to meet current EPA standards. The DPF and SCR will be mounted horizontally outside of the frame rails in the passenger side front step area. The exhaust will terminate with a horizontal tailpipe and diffuser ahead of the passenger side rear wheels.
- 4.3.29.1.** A heat deflector shield will be provided where the tail pipe is routed under any side compartmentation.
- 4.3.30. COOLANT LINES:** Gates Blue Stripe rubber hose will be used for all engine coolant lines installed by vendor. Hose clamps will be the constant torque type to prevent coolant leakage. They will expand and contract according to coolant system temperature thereby keeping a constant clamping pressure on the hose.
- 4.3.31. FUEL TANK -** A 50-gallon fuel tank will be provided and mounted at the left-hand cab step. The rectangular tank will be constructed of aluminum.
- 4.3.32. DIESEL EXHAUST FLUID TANK:** A 6.00-gallon diesel exhaust fluid (DEF) tank will be provided and mounted on the driver's side, below the cab. The tank will include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.
- 4.3.33. FUEL PRIMER PUMP:** A fuel primer pump will be included with the fuel water separator.
- 4.3.34. TRANSMISSION:** An Allison, model 3000 EVS, or an approved equivalent, electronic torque converting automatic transmission will be provided.
- 4.3.34.1.** Two (2) PTO openings will be located on left side and top of converter housing (positions 8 o'clock and 4 o'clock).
- 4.3.34.2.** A transmission temperature gauge or warning light will be installed on cab instrument panel.
- 4.3.35. TRANSMISSION SHIFT CONTROL:** A push button shift module will be mounted to right of driver. Shift position indicator will be indirectly lit for after dark operation.
- 4.3.35.1.** The transmission will be a six (6)-speed. The transmission ratios will be 1st - 3.49 to 1.00, 2nd - 1.86 to 1.00, 3rd - 1.41 to 1.00, 4th - 1.00 to 1.00, 5th - 0.75 to 1.00, 6th - 0.65 to 1.00, R - 5.03 to 1.00.
- 4.3.36. TRANSMISSION COOLER:** A transmission oil cooler will be provided in the lower tank of the radiator.
- 4.3.37. DRIVELINE:** Drivelines will have a heavy-duty metal tube that is properly sized for the intended application. The shafts will have a splined slip joint.
- 4.3.38. STEERING:** The steering system will be hydraulically driven. The steering column will have an adjustable tilt and telescope feature.
- 4.3.39. BUMPER:** A 14.00", three (3) piece, full-width, painted steel bumper with collapsible boxed ends will be attached to the front of the chassis frame.
- 4.3.40. TOW HOOKS:** Two (2) painted, forged steel tow hooks will be provided.
- 4.3.41. BUMPER GAP:** The standard bumper furnished with the chassis will be used.
- 4.3.42. CAB:** A 2-door flat-roof cab will be provided. The cab and doors will be of an aluminum construction.
- 4.3.43. Exterior shall include:**
- 4.3.43.1.** Aerodynamic hood and windshield
- 4.3.43.2.** Tinted Glass in all Windows
- 4.3.43.3.** Fiberglass hood with mounted plastic grille
- 4.3.43.4.** Single 63"x14" rear window

4.3.44. Interior shall include:

- 4.3.44.1** Rubber cab mounts
 - 4.3.44.2** Gray vinyl mats
 - 4.3.44.3** Forward roof mounted console
 - 4.3.44.4** Two (2) dash-mounted cup holders, right-hand and left-hand
 - 4.3.44.5** Gray Vinyl Upholstery
 - 4.3.44.6** Dual Sun Visors
 - 4.3.44.7** Fresh Air Heater and Defroster
 - 4.3.44.8** Gray Vinyl Upholstery
- 4.3.45 CAB GRILLE:** The cab grille will be a silver-painted high impact plastic with a horizontal rib design. The headlight bezels will be of a matching material and color. The grille will tilt with the hood.
- 4.3.46 MIRRORS:** West Coast style heated, remote operated mirrors constructed from a molded composite material with a bright finish will be provided. A heated 8.00" convex mirror shall be included below the primary mirrors. An auxiliary down view mirror will be included on the passenger side.
- 4.3.47 CAB ACCESS STEPS:** The cab steps will be provided by the chassis manufacturer. These steps will be modified by the apparatus manufacturer if required to meet NFPA step requirements. Bright aluminum treadplate trim between the steps will be provided by the apparatus manufacturer. A bright aluminum overlay will be placed over any fuel tank, under the mounting bands. Access to the chassis batteries will be provided if batteries are located under the cab.
- 4.3.48 STEP LIGHTS:** There will be four (4) Ri-Tar, Model M27, clear LED step lights provided. There will be one (1) light installed at each cab door, one (1) light per doorstep. The lights will be activated when the adjacent door is opened.
- 4.3.49 AIR CONDITIONING:** An air conditioner will be provided that is integral with heater and defroster system.
- 4.3.50 ENGINE COMPARTMENT LIGHTS:** Two (2) engine compartment lights will be installed under the engine hood, of which the switches are an integral part.
- 4.3.51 SEATING CAPACITY:** The seating capacity in the cab will be two (2).
- 4.3.52 SEATING:** Seating inside the cab will consist of a Seats Inc. 911 air-ride driver seat and a Seats Inc. 911 air-ride officer seat.
- 4.3.53 SEAT BELT WEB LENGTH:** The chassis seat belt web length as supplied by the commercial chassis manufacturer will be compliant to NFPA 14.1.3.2 and 14.1.3.3.
- 4.3.54 SEAT BELTS:** All seating positions in the cab and crew cab will have red seat belts.
- 4.3.55 SEAT BELT MONITORING SYSTEM:** A seat belt monitoring system (SBMS) will be provided. The SBMS will be capable of monitoring up to ten (10) seat positions indicating the status of each seat position with a green or red LED indicator as follows:
- 4.3.55.1** Driver Seat:
 - 4.3.55.2** Seat Occupied Buckled Green
 - 4.3.55.3** No Occupant Unbuckled Not Illuminated
 - 4.3.55.4** The driver seat will not include an occupant sensor. The display indication for the driver seat will illuminate red any time the parking brake is released, and the driver seat belt is not buckled.
 - 4.3.55.5** All Other Seats:
 - 4.3.55.6** Seat Occupied Buckled Green
 - 4.3.55.7** Seat Occupied Unbuckled Red
 - 4.3.55.8** No Occupant Buckled Red
 - 4.3.55.9** No Occupant Unbuckled Not Illuminated
 - 4.3.55.10** Alarm: The SBMS will include an audible alarm that will be activated when a red illumination condition exists and the parking brake is released, or a red illumination condition exists, and the transmission is not in park.

4.3.56 CAB INSTRUMENTS

- 4.3.56.1** Engine Temperature Gauge and Warning Buzzer
- 4.3.56.2** Engine Oil Pressure Gauge and Warning Buzzer
- 4.3.56.3** Speedometer with Odometer
- 4.3.56.4** Engine Tachometer
- 4.3.56.5** Engine Hour meter
- 4.3.56.6** Fuel Level Gauge
- 4.3.56.7** Voltmeter: Low voltage red warning light and audible alarm
- 4.3.56.8** Air Brake Pressure Gauge
- 4.3.56.9** Air Restriction Indicator
- 4.3.56.10** Circuit Breakers: For overload protection of electric circuits
- 4.3.56.11** Ignition Switch: Keyless type

4.3.57 EMERGENCY SWITCH PANEL: An emergency switch panel will be provided in the cab. The switch panel will be located overhead and on the cab instrument panel.

- 4.3.57.1** "DO NOT MOVE APPARATUS" INDICATOR
- 4.3.57.2** A flashing red indicator light (located in the driving compartment) will be illuminated automatically per the current edition of NFPA. The light will be labeled "Do Not Move Apparatus If Light Is On".

4.3.58 OPEN DOOR INDICATOR LIGHT: A red "open door" indicator light will be provided inside the cab, in clear view of the driver, to warn of an open compartment door.

4.3.59 WIPER CONTROL: Wiper control will include an intermittent feature and windshield washer controls.

4.3.60 VEHICLE DATA RECORDER: A vehicle data recorder (VDR) will be provided by vendor. The VDR will be capable of reading and storing vehicle information. The VDR will be capable of operating in a voltage range from 8VDC to 16VDC. The VDR will not interfere with, suspend, or delay any communications that may exist on the CAN data link during the power up, initialization, runtime, or power down sequence. The VDR will continue operation upon termination of power or at voltages below 8VDC for a minimum of 10ms.

The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A CD provided with the apparatus will include the programming to download the information from the VDR. A USB cable can be used to connect the VDR to a laptop to retrieve required information.

The vehicle data recorder will be capable of recording the following data via hardwired and/or CAN inputs:

- 4.3.60.1** Vehicle Speed - MPH
- 4.3.60.2** Acceleration - MPH/sec
- 4.3.60.3** Deceleration - MPH/sec
- 4.3.60.4** Engine Speed - RPM
- 4.3.60.5** Engine Throttle Position - % of Full Throttle
- 4.3.60.6** ABS Event - On/Off
- 4.3.60.7** Seat Occupied Status - Yes/No by Position (1-6 Seating Capacity)
- 4.3.60.8** Seat Belt Buckled Status - Yes/No by Position (1-6 Seating Capacity)
- 4.3.60.9** Master Optical Warning Device Switch - On/Off
- 4.3.60.10** Time - 24 Hour Time
- 4.3.60.11** Date - Year/Month/Day

4.3.61 ELECTRICAL: All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run in loom or conduit where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers will be provided which conform to SAE Standards. Wiring will be color, function and number coded. Function and number codes will be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Electrical wiring and equipment will be installed utilizing the following guidelines:

- 4.3.61.1** All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof.
- 4.3.61.2** Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area is defined as any location outside of the cab or body.
- 4.3.61.3** Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also, a coil of wire will be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.
- 4.3.61.4** Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation (of the plug).
- 4.3.61.5** All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.
- 4.3.61.6** All electrical terminals in exposed areas will have silicon (1890) applied completely over the metal portion of the terminal. All emergency light switches will be mounted on a separate panel installed in the cab. A master warning light switch and individual switches will be provided to allow pre-selection of emergency lights. The light switches will be "rocker" type with an internal indicator light to show when switch is energized. All switches will be properly identified and mounted in a removable panel for ease in servicing.
- 4.3.61.7** Identification of the switches will be done by either printing or etching on the switch panel. The switches and identification will be illuminated.
- 4.3.61.8** All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, will be furnished. Rear identification lights will be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments.
- 4.3.61.9** An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.
- 4.3.61.10** The results of the tests will be recorded and provided to the purchaser (City) at time of delivery.

4.3.62 BATTERY SYSTEMA single starting battery system will be provided consisting of two (2) 12 volt, 1125 CCA, maintenance-free, group 31 batteries.

- 4.3.62.1** The batteries system will have a total of 2250 CCA.
- 4.3.62.2** Jump Start Connections
- 4.3.62.3** Positive and negative posts for jump starting will be provided by the chassis manufacturer. They will be frame mounted and located on the driver's side under the hood.

4.3.63 MASTER BATTERY SWITCH

- 4.3.63.1** A master battery switch, to activate the battery system, will be provided inside the cab within easy reach of the driver.
- 4.3.63.2** The master battery disconnect switch will be wired between the starter solenoid and the remainder of the electrical loads on the apparatus.
- 4.3.63.3** A green "battery on" indicator light, visible from the driver's position, will be provided.

4.3.64 BATTERY CHARGER/ AIR COMPRESSOR

- 4.3.64.1** A BlueSea Model P12 40 Amp will be provided and installed.
- 4.3.64.2** The battery charger will be wired to the AC shoreline inlet through an AC receptacle adjacent to this battery charger.
- 4.3.64.3** The battery charger will be located under the cab bench seat.
- 4.3.64.4** The battery charger indicator will be located on the driver's seat riser.

4.3.65 AUTO EJECT FOR SHORELINE

- 4.3.65.1** one (1) shoreline receptacle will be provided to operate the dedicated 120-volt circuits on the truck without the use of the generator.
- 4.3.65.2** The shoreline receptacle (s) will be provided with a BlueSea Brand 20 Amp Sure Eject. The auto eject plug with a red weatherproof cover. The cover is spring loaded to close, preventing water from entering when the shoreline is not connected.

4.3.66 ALTERNATOR: The alternator will be a Delco Remy 40SI, 275 amp, quadramount, with remote battery voltage sensor.

4.3.67 ELECTRONIC LOAD MANAGEMENT

- 4.3.67.1** A Kussmaul Load Manager 2 will be provided on the apparatus. The device is an electronic load management (ELM) system that monitors the vehicles 12-volt electrical system, and automatically reduces the electrical load in the event of a low voltage condition and by doing so, ensures the integrity of the electrical system.
- 4.3.67.2** The ELM will monitor the vehicle's voltage while at the scene (parking brake applied). It will sequentially shut down individual electrical loads when the system voltage drops below a preset value. Two (2) separate electrical loads will be controlled by the load manager. The ELM will sequentially re-energize electrical loads as the system voltage recovers.

4.3.68 EXTERIOR LIGHTING

- 4.3.68.1** Exterior lighting will meet or exceed Federal Department of Transportation, Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements in effect at this time.
- 4.3.68.2** Front headlights will be halogen type and comply to all FMVSS requirements.
- 4.3.68.3** Five (5) clearance/marker lights will be installed across the leading edge of the cab.

4.3.69 REAR ID/MARKER DOT LIGHTING

- 4.3.69.1** The three (3) identification lights located at the rear will be installed per the following:
- 4.3.69.2** As close as practical to the vertical centerline.
- 4.3.69.3** Centers spaced not less than six (6) inches or more than twelve (12) inches apart.
- 4.3.69.4** Red in color.
- 4.3.69.5** All at the same height.
- 4.3.69.6** The outside clearance lights located at the rear will be installed per the following:
- 4.3.69.7** To indicate the overall width of the vehicle.
- 4.3.69.8** At least one (1) each side of the vertical Centerline.
- 4.3.69.9** All at the same height.
- 4.3.69.10** As near the top as practical.
- 4.3.69.11** To be visible from the rear and the side.
- 4.3.69.12** Per FMVSS 108 and CMVSS 108 requirements.
- 4.3.69.13** REAR FMVSS LIGHTING
- 4.3.69.14** The rear stop/tail/directional lights will be Whelen M6BTT, light emitting diode (LED) lamp kits. Each lamp kit will include a lamp, a rubber grommet and a connector plug.
- 4.3.69.15** The lights will be mounted on the rear face of the rear fender compartment by the use of the rubber grommet.
- 4.3.69.16** Four (4) red reflectors will be provided.
- 4.3.69.17** A Weldon, Model 23882-2600-00, license plate bracket will be mounted on the driver's side above the warning lights. A Weldon, Model 9186-23882-30, step lamp will illuminate the license plate.
- 4.3.69.18** Two (2) Whelen M62BU, backup lights will be provided.

4.3.70 BACK-UP ALARM: A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.

4.3.71 PERIMETER SCENE LIGHTS, CAB: There will be two (2) lights Amdor Luma Bar H2O, Model AY-9500-020, 20.00" LED weatherproof strip light(s) provided for each cab door. The lights will be activated automatically when the cab exit doors are opened and by the same means as the body perimeter lights.

4.3.72 REAR SCENE LIGHTS: There will be pair of Whelen, Model 9SC0ENZR LED scene light(s) with chrome flange installed at the rear of the water tank. The lights will be mounted on spacer bezels as required.

- 4.3.72.1** A control for the light(s) selected above will be the following:
- 4.3.72.2** a switch at the driver's side switch panel
- 4.3.72.3** These lights may be load managed when the parking brake is set.

4.3.73 SIDE SCENE LIGHTS

- 4.3.73.1** There will be four (4) Whelen, Model 9SC0ENZR LED scene light(s) with chrome flange installed on the side of the apparatus, one each side front of tank and one each side rear of tank.
- 4.3.73.2** A control for the light(s) selected above will be the following:
- 4.3.73.3** a switch at the driver's side switch panel
- 4.3.73.4** These lights may be load managed when the parking brake is set.

4.3.74 WATER TANK

- 4.3.74.1** The tank will have a minimum capacity of 2100 U.S. gallons. The tank will be of a specified configuration and designed to be completely independent of the compartment and/or fender modules. When placed on the chassis, the tank will meet or exceed all federal DOT regulations regarding weight distribution, axle loading and horizontal and vertical center of gravity locations. The tank manufacturer will mark the tank with the manufacturer's name, date of manufacture, and serial number. The tank manufacturer will furnish notice that indicates proof of warranty.
- 4.3.74.2** The tank will be constructed using a virgin polypropylene sheet with a minimum thickness of .50". This material will be a high impact copolymer (HIC), non-corrosive, stress relieved thermoplastic, UV stabilized for maximum protection.
- 4.3.74.3** All joints and seams will be nitrogen welded and tested for maximum strength and integrity. All swash partitions will interlock and be welded to each other as well as to the walls of the tank.
- 4.3.74.4** The tank will incorporate a manual fill tower with a 6.00" combination vent/overflow pipe. The fill tower will be constructed of polypropylene and will be large enough to provide filling by means of a conventional 2.50" hose nozzle. The tower will be located near the center of the tank to minimize water surge during vehicle operation. The tower will have a removable polypropylene screen and a polypropylene hinged cover. The vent/overflow pipe will run through the tank and exit through the floor of the tank behind the rear axle.
- 4.3.74.5** The sides of the tank will be painted to match the remainder of the unit.
- 4.3.74.6** The tank and hose bed (if provided) will be removable as a unit and will be a separate component from the body compartmentation.
- 4.3.74.7** A heavy-duty water tank restraint will be provided to keep the water tank in position.
- 4.3.74.8** A 6.00" tube will be installed through the shell of the tank. This tube will function as an overflow to discharge water to the ground once the tank is filled to capacity. It will also function as a vent to allow air to enter the tank when water is being dumped or pumped from the tank.
- 4.3.74.9** The tube will be positioned to drain at the bottom of the truck near the center, behind the rear axle.

4.3.75 PORTABLE TANK RACK

- 4.3.75.1** A portable tank rack constructed of stainless-steel tubing will be installed on passengers of the truck on top of the catwalk. The rack will be hinged to allow the entire rack to fold down to a position adjacent to the side of the body where two (2) people can easily remove the tank. Two (2) heavy-duty latches will be installed, one (1) on the front and one (1) on the rear, to lock the rack in the stored position. The rack will be designed to carry a 2100-gallon Fol-Da-Tank brand portable tank.
- 4.3.75.2** When the rack is in the lowered position, it will activate the "Do Not Move Apparatus" light in the cab.

- 4.3.76 EXTENSION BRACKET:** In order to accommodate the length of the portable tank rack, a reinforced extension bracket constructed of aluminum treadplate will be installed at the rear of the body.
- 4.3.77 REAR TANK FILL**
- 4.3.77.1** A 2.50" gated external tank fill will be installed and properly labeled at the rear of the water tank, located passenger's side.
 - 4.3.77.2** Piping, for the fill, will be routed through the rear wall of the tank and include a flow deflector to break up the stream of water entering the water tank.
 - 4.3.77.3** A 2.50" full flow ball valve with 2.50" piping and a 2.50" (F) NST chrome swivel will be located at the inlet.
 - 4.3.77.4** A 2.50" chrome plated 30-degree elbow and plug with VLH automatic pressure relieving thread technology will be provided for the tank fill.
- 4.3.78 REAR TANK DUMP VALVE**
- 4.3.78.1** One (1) 10.00" Newton Quick Dump will be installed at the rear of the tank. The valve will be operated manually by a lever control located on top of the valve.
 - 4.3.78.2** A 180-degree, Newton 6000SW swivel dump chute will be provided. The chute will include a Newton 4036 telescopic extension to allow the chute to extend past the body side for dumping.
 - 4.3.78.3** The water tank design will include additional support for this chute.
- 4.3.79 REAR BODY STRUCTURE:** The rear body sheet will include a reinforced structure to provide additional strength.
- 4.3.80 REAR WALL, SMOOTH ALUMINUM:** The rear wall will be smooth aluminum.
- 4.3.81 TOW EYES:** Two (2) rear painted tow eyes will be located at the rear of the apparatus and will be mounted directly to the chassis frame rails. The inner and outer edges of the tow eyes will have a radius.
- 4.3.82 COMPARTMENTATION**
- 4.3.82.1** Compartments will be fabricated of aluminum treadplate. Drip protection will be provided above the doors by means of an aluminum extrusion designed into the door opening.
 - 4.3.82.2** All screws and bolts which protrude into a compartment will have acorn nuts on the ends to prevent injury.
 - 4.3.82.3** All exterior surfaces designated as stepping, standing, and walking areas will comply with the required average slip resistance of the current NFPA standards.
 - 4.3.82.4** One (1) compartment constructed of bright aluminum treadplate will be provided in the area ahead of the rear wheels. The interior dimensions of the compartment will be 53.75" wide x 27.63" high x 26.25" deep. The clear door opening of the compartment will be 51.50" wide x 26.50" high.
 - 4.3.82.5** The fender panel area around the rear wheels on both sides of the truck will have a bright aluminum treadplate finish.
 - 4.3.82.6** One (1) compartment constructed of bright aluminum treadplate will be provided in the area ahead of the rear wheels. The interior dimensions of the compartment will be 53.75" wide x 27.63" high x 26.25" deep. The clear door opening of the compartment will be 51.50" wide x 26.50" high.
 - 4.3.82.7** All hinged compartment doors will be double panel aluminum construction. The exterior surface of the door will be bright finish aluminum treadplate, and the pan will be smooth, unpainted aluminum.
 - 4.3.82.8** The door opening will have a closed cell rubber gasket to ensure a weather resisting compartment.
 - 4.3.82.9** All compartment doors will have polished stainless steel continuous hinge with a pin diameter of .1875".
 - 4.3.82.10** Doors will be latched with recessed, polished stainless-steel D-ring handles and Eberhard 106 latch.
 - 4.3.82.11** There will be two (2) compartments with Pierce LED compartment light strips. The strips will be centered vertically along each side of the door framing. The compartments with these strip lights will be located each compartment.

- 4.3.82.12 Opening the compartment door will automatically turn the compartment lighting on.
- 4.3.82.13 There will be [2, Shelf Track] for mounting shelf(s) in location. These tracks will be installed vertically to support the adjustable shelf(s) and will be full height of the compartment. The tracks will be unpainted with a natural finish.

4.3.83 BODY FENDER CROWNS

- 4.3.83.1 Stainless steel fender crowns will be provided around the rear wheel openings. These fender crowns must be wide enough to prevent splashing onto the body from the 315/80R22.5 tires on a 30,000 lb. rear axle.
- 4.3.83.2 A rubber welting will be provided between the body and the crown to seal the seam and restrict moisture from entering.
- 4.3.83.3 A dielectric barrier will be provided between the fender crown fasteners (screws) and the fender sheet metal to prevent corrosion.

4.3.84 **HARD SUCTION HOSE:** There will be Two (2) lengths of 10-Foot-long x 6.00" diameter hose provided.

4.3.85 HOSE TROUGHS:

- 4.3.85.1 Troughs for hard suction hose will be installed above the driver's side compartments.
- 4.3.85.2 The troughs will be constructed of aluminum and remain the natural aluminum finish. They will be a V-shaped design. The hose will be held in place by an easy to release clamping mechanism.
- 4.3.85.3 The troughs will be mounted on tracks to make them adjustable up and down.

4.3.86 PUMP

- 4.3.86.1 A power takeoff driven Waterous Model CXPA single (1) stage pump with a rating of 1000 gallons per minute at 150 psi will be provided.
- 4.3.86.2 The pump will be placed in gear from the chassis cab. The pump shift position will be clearly labeled.
- 4.3.86.3 The pump casing will be a vertically split design constructed of alloy cast iron. The volute will be designed to hydraulically neutralize radial thrust.
- 4.3.86.4 The impeller will be constructed of high strength bronze alloy and will be accurately balanced and splined to the pump shaft for precision fit and durability.
- 4.3.86.5 The pump shaft will be stainless steel with a ceramic hard coating under the shaft.
- 4.3.86.6 Mechanical seals will be provided for the pump.
- 4.3.86.7 A two-gear transmission with helical gears and a 1.375" diameter splined shaft will be provided.
- 4.3.86.8 The water pump will be driven by a hot shift PTO located on the chassis transmission.
- 4.3.86.9 An interlock system will be provided to ensure that the pump drive system components are properly engaged so that the apparatus can be safely operated. Interlock system will be designed to allow stationary pumping only.
- 4.3.86.10 A pump shift will be provided within easy reach of the driver for engagement of the PTO driven pump. The shift will include the indicator lights as mandated by NFPA. The pump shift control will be illuminated to meet NFPA requirements.

4.3.87 **AUXILIARY COOLING SYSTEM:** A supplementary heat exchange cooling system will be provided to allow the use of water from the discharge side of the pump for cooling the engine water. The pump casting will be designed to be used as a heat exchanger.

4.3.88 **INTAKE RELIEF VALVE:** A Task Force Tips relief valve will be installed on the suction side of the pump preset at 125 psig.

- 4.3.88.1 Relief valve will have a working range of 50 psig to 200 psig.
- 4.3.88.2 Outlet will terminate below the frame rails with a 2.50" National Standard hose thread adapter and will have a "do not cap" warning tag.

4.3.89 PRESSURE CONTROLLER, AUTO CONTROL

- 4.3.89.1 An all-electric pressure governor will be provided which is capable of automatically maintaining a desired preset discharge pressure, within a range of 0 to 400 psi. This system will not require a mechanical drive, oil, or air supply for a means of control. When operating in the pressure control mode, the system will automatically maintain the discharge pressure set by the operator (within the discharge capabilities of the pump and water supply) regardless of flow, within the discharge capacities of the water pump and water supply.
- 4.3.89.2 A pressure transducer will be installed in the water discharge manifold on the pump. The transducer continuously monitors pump pressure sending a signal to the Electronic Control Module (ECM) which modulates fueling in order to maintain a set pressure, regardless of pump flow rate or engine speed (within engine operating capacities). There are no user serviceable items and no maintenance required on the Pressure Sensor Governor (PSG) system. The PSG system also eliminates the need for a discharge pressure relief valve.
- 4.3.89.3 The PSG can be used in two (2) modes of operation, rpm mode and pressure modes.
- 4.3.89.4 In the rpm mode, the governor can be activated after vehicle parking brake has been set. The rpm mode is similar in operation to PTO operation. When in this mode, the governor will maintain the set engine speed, regardless of engine load (within engine operation capabilities). When the PSG system is first activated, the governor automatically operates in the rpm mode. When in the rpm mode, each time the increase switch is pushed, the engine speed will increase by 25 rpms. Each time the decrease switch is pushed, the engine speed will decrease by 25 rpms. If the increase or decrease switch is pushed more than a 1/2 second, the engine speed will ramp at a rate of 50 rpm.
- 4.3.89.5 In the pressure mode, the governor system can only operate after the fire pump has been engaged and the vehicle parking brake has been set. When in the pressure mode, the PSG monitors the pump pressure and varies engine speed to maintain a precise pump pressure.
- 4.3.89.6 A preset also allows a predetermined pressure or rpm to be set.
- 4.3.89.7 A pump cavitation protection feature is also provided which will return the engine to idle should the pump cavitate. Cavitation is sensed by the combination of pump pressure below 30 psi and engine speed above 2000 rpm for more than five (5) seconds.
- 4.3.89.8 The Electronic Auto Control (EAC) display panel will be located at the pump operator's panel. The EAC co-operates the PSG and displays engine temperature, oil pressure, engine rpm, pump intake, pump discharge, and voltage.
- 4.3.90 **PRIMING PUMP:** One Trident Brand Priming Valve will be installed. This will be piped to air system with check valve to prevent depleting air system.
- 4.3.91 **ENCLOSURE:** An aluminum treadplate structure will be installed around the pump, piping, valves and gauges. A secured vinyl cover will be included over the access opening.
- 4.3.92 **PUMP MANUALS:** Two (2) pump manuals from the pump manufacturer will be furnished with the apparatus. The manuals will cover pump operation, maintenance, and parts.
- 4.3.93 **PLUMBING**
 - 4.3.93.1 All inlet and outlet plumbing, 3.00" and smaller, will be plumbed with either stainless steel pipe or synthetic rubber hose reinforced with high-tensile polyester braid. Small diameter secondary plumbing such as drain lines will be stainless steel, brass or hose.
 - 4.3.93.2 Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping will be equipped with victaulic or rubber couplings.
 - 4.3.93.3 Plumbing manifold bodies will be ductile cast iron or stainless steel.
 - 4.3.93.4 All lines to drain through either a master drain valve or will be equipped with individual drain valves. All individual drain lines for discharges will be extended with a hose to drain below the chassis frame.
 - 4.3.93.5 All water carrying gauge lines will be of flexible polypropylene tubing.
- 4.3.94 **MAIN PUMP INLETS**
 - 4.3.94.1 Two (2) 6" inlets will be directly plumbed to pump. One on each side.
 - 4.3.94.2 The main pump inlets will have National Standard Threads with a rocker lug chrome plated cap.
 - 4.3.94.3 The cap will be the Pierce VLH, which incorporates a Pierce exclusive thread design to automatically relieve stored pressure in the line when disconnected.

- 4.3.95 VALVES:** All ball valves will be Akron Brass. The Akron valves will be the 8000 series heavy-duty style with a stainless-steel ball and a simple two-seat design. No lubrication or regular maintenance is required on the valve.
- 4.3.95.1** Valves will have a ten (10) year warranty.
- 4.3.96 INLET (Left side):** At the pump operator's position will be one (1) - 2.50" auxiliary suction, terminating in 2.50" National Standard Hose Thread. The auxiliary suction will be provided with a strainer, chrome swivel and plug.
- 4.3.97 INLET BLEEDER VALVE:** A .75" bleeder valve will be provided for the side gated inlet. The valves will be a push/pull type knob for the control easily accessible.
- 4.3.98 TANK TO PUMP:** The tank will be connected to the intake side of the pump with heavy-duty piping and a 4.00" butterfly valve with a handwheel control remotely located at the operator's position. The tank to pump line will run from the pump to the tank sump. A rubber coupling will be included in this line to prevent damage from vibration or chassis flexing. A check valve will be provided to prevent the possibility of "back filling" the water tank.
- 4.3.99 TANK REFILL:** A 2.00" combination tank refill and pump bypass line will be provided using a quarter-turn full flow ball valve, controlled from the pump operator's panel.
- 4.3.100 DISCHARGE OUTLETS (Left Side):** There will be two (2) discharge outlets with a 2.00" valve on the left side of the apparatus, terminating with a male 2.50" National Standard hose thread adapter. The valve will be located on the plumbing within easy reach.
- 4.3.101 DISCHARGE CAPS**
- 4.3.101.1** Chrome plated, rocker lug, caps with chains will be furnished for all side discharge outlets.
- 4.3.101.2** The caps will be the Pierce VLH, which incorporates a Pierce exclusive thread design to automatically relieve stored pressure in the line when disconnected.
- 4.3.102 OUTLET BLEEDER:** A .75" bleeder valve with "push/pull" control will be provided for each outlet 1.50" or larger. Automatic drain valves may be provided with some outlets if deemed appropriate for the application.
- 4.3.103 DISCHARGE OUTLET CONTROLS:** The discharge outlets will incorporate a quarter-turn ball valve with the control located at the valve. The valve operating mechanism (handle) will indicate the position (open/closed) of the valve.
- 4.3.104 HOSE STORAGE TRAY**
- 4.3.104.1** A hose storage tray to accommodate 200' of 2.50" hose will be provided.
- 4.3.104.2** Construction will consist of aluminum treadplate with a retainer to hold the hose in place.
- 4.3.104.3** The hose storage tray will be located on the driver's side catwalk.
- 4.3.105 CROSSLAY HOSE BEDS**
- 4.3.105.1** Two crosslays with 1.50" outlets will be provided. Each bed to be capable of carrying 200 feet of 1.75" double jacketed hose and will be plumbed with 2.00" i.d. pipe and gated with a 2.00" quarter turn ball valve.
- 4.3.105.2** The crosslay controls will be at the pump operator's position.
- 4.3.105.3** A removable tray will be provided for each crosslay to allow for easy repacking of hose.
- 4.3.105.4** Elastic netting will be provided across the ends of two (2) speedlay opening(s) to secure the hose during travel. The netting will be permanently attached at the front of the speedlay(s). The netting at the opposite side will be removable.
- 4.3.106 BOOSTER HOSE REEL**
- 4.3.106.1** A low-profile Hannay electric rewind booster hose reel will be installed on the right side IPO the rolled hose storage.
- 4.3.106.2** A polished stainless-steel roller and guide assembly will be mounted on the reel.

- 4.3.106.3** The exterior finish of the reel will be painted #269 gray from the reel manufacturer.
- 4.3.106.4** Discharge control will be provided at the pump operator's panel. Plumbing to the reel will consist of 1.50" Aeroquip hose and a 2.00" valve.
- 4.3.106.5** A skid plate will be provided under the reel.
- 4.3.106.6** Reel motor will be protected from overload with a sized automatic reset circuit breaker.
- 4.3.106.7** Reel motor will be protected from overload with a sized automatic reset circuit breaker.
- 4.3.106.8** Electric rewind control will be a rubber covered button adjacent to the reel.
- 4.3.106.9** Booster hose, 1.00" diameter and 150 feet, with chrome plated Barway, or equal couplings will be provided.
- 4.3.106.10** Working pressure of the booster hose will be a minimum of 800 psi.
- 4.3.106.11** Capacity of the hose reel will be 200 feet of 1.00" booster hose.
- 4.3.106.12** An Elkhart, model S-200, booster hose nozzle will be provided.

4.3.107 PUMP AND GAUGE PANEL: The pump and gauge panels will be constructed of metal with a printed overlay as needed.

4.3.108 PUMP ACCESS

- 4.3.108.1** The pump and plumbing will be accessible from the driver's side of the truck. No panels will need to be removed.
- 4.3.108.2** Engine monitoring graduated LED indicators will be incorporated with the pressure controller.
- 4.3.108.3** Digital readouts for the Master Pump Pressure and Intake are included with the FRC IN Control.

4.3.109 PRESSURE GAUGES

- 4.3.109.1** The individual "line" pressure gauges for the discharges will be Class 1 interlube filled.
- 4.3.109.2** They will be a minimum of 2.00" in diameter and have white faces with black lettering.
- 4.3.109.3** Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.
- 4.3.109.4** Gauges will have a pressure range of 30"-0-400#.
- 4.3.109.5** The individual pressure gauge will be installed as close to the outlet control as practical.
- 4.3.109.6** This gauge will include a 10-year warranty against leakage, pointer defect, and defective bourdon tube.

4.3.110 WATER LEVEL GAUGE: An electronic water level gauge will be provided at the rear of the body that registers water level by means of five colored LED lights. The lights will be durable, ultra-bright five LED design viewable through 180 degrees. The water level indicators will be as follows:

- 4.3.110.1** 100% = Green
- 4.3.110.2** 75% = Yellow
- 4.3.110.3** 50% = Yellow
- 4.3.110.4** 25% = Yellow
- 4.3.110.5** Refill = Red
- 4.3.110.6** The light will flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights will flash sequentially when the water tank is empty.
- 4.3.110.7** The level measurement will be based on the sensing of head pressure of the fluid in the tank.
- 4.3.110.8** The display will be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design will provide complete protection from water and environmental elements. An industrial pressure transducer will be mounted to the outside of the tank. The field calibratable display measures head pressure to accurately show the tank level.

4.3.111 LIGHTING, PUMP CONTROLS

- 4.3.111.1** Illumination will be provided for controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus and the equipment provided on it. External illumination will be a minimum of five (5) foot-candles on the face of the device. Internal illumination will be a minimum of four (4) footlamberts.
- 4.3.111.2** Lights will be installed above the controls and gauges in a manner that will properly illuminate them. The lights are to be actuated with the parking brake.

4.3.112 AIR HORN SYSTEM: Two (2) Hadley round air horns with 6.00" bell will be provided and located one (1) each side of the engine. The horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed in-line to prevent the loss of air, in the air brake system.

4.3.113 AIR HORN CONTROL: A lanyard rope pull control will be provided within reach of the driver.

4.3.114 ELECTRONIC SIREN: A Whelen, Model: 295SLSA1, electronic siren with noise canceling microphone will be provided.

4.3.114.1 Siren head will be located near the overhead switches.

4.3.114.2 The electronic siren will be controlled on the siren head only. No horn button or foot switches will be provided.

4.3.114.3 There will be two (2) speakers provided. Each speaker will be a Whelen, Model: SA31I01, 100-watt under mount.

4.3.114.4 Each speaker will be connected to the siren amplifier.

4.3.114.5 The speaker(s) will be mounted below the front bumper on the passenger's side.

4.3.115 EMERGENCY LIGHTS

4.3.115.1 One (1) 55.00" Whelen, Model: Freedom LED lightbar will be mounted on the cab roof.

4.3.115.2 This lightbar will include the following:

4.3.115.3 Two (2) red flashing forward facing LED modules.

4.3.115.4 Two (2) clear flashing forward facing LED modules.

4.3.115.5 Two (2) red flashing front corner LED modules.

4.3.115.6 One (1) red flashing driver side facing LED module.

4.3.115.7 One (1) red flashing officer side facing LED module.

4.3.115.8 One (1) switch located in the cab on the switch panel will control this lightbar.

4.3.115.9 The lens color will be clear.

4.3.115.10 To meet NFPA requirements, all clear lights will be deactivated when the parking brake is applied.

4.3.115.11 WARNING LIGHTS (Cab Face)

4.3.115.12 A pair of flush mounted, Whelen model 60*02F*R, flashing Super LED lights will be provided on the cab face.

4.3.115.13 The color of these lights will be red Super LED/red lens.

4.3.115.14 These lights will meet or exceed the NFPA required optical light output for the front lower zone.

4.3.115.15 A switch will be provided inside the cab on the switch panel for actuation.

4.3.115.16 These lights will be installed with a flange.

4.3.115.17 Four (4) Whelen flashing Super LED warning lights will be located in the following positions:

4.3.115.18 Two (2) model RSR02ZCR LIN3 Super LED lights, one (1) each side on the engine hood under 62.00".

4.3.115.19 The color of these lights will be red.

4.3.115.20 Two (2) model 60*02F*R Super 600 LED lights, one each side.

4.3.115.21 The color of these lights will be red.

4.3.115.22 The above four (4) lights will be required to meet or exceed the lower level optical warning and optical power requirements of NFPA.

4.3.115.23 These lights will be controlled by a lighted switch on the cab instrument panel.

4.3.115.24 These lights will be installed in a plastic, chrome-plated flange.

4.3.115.25 Two (2) Whelen model 60*02F*R flashing "Super" LED warning lights will be located at the rear of the apparatus, required to meet or exceed the lower level optical warning and optical power requirements of NFPA.

4.3.115.26 The color of these lights will be red Super LED/red lens.

4.3.115.27 One (1) switch in the cab on the switch panel will control these lights.

4.3.115.28 These lights will be installed with a flange.

4.3.116 WARNING LIGHTS (Rear of Hose Bed)

4.3.116.1 Two (2) Whelen L31H*FN LED warning beacons will be provided at the rear of the truck, located one (1) each side. These lights will be activated by a lighted switch on the instrument panel.

4.3.116.2 The color of the lights will be red LEDs with both domes red.

- 4.3.116.3** The rear warning lights will be mounted on aluminum treadplate brackets which will also support the clearance/marker lights.
- 4.3.117 LOOSE EQUIPMENT:** The following equipment will be furnished with the completed unit: One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit.
- 4.3.118 PAINT**
- 4.3.118.1** The chassis will be painted by the chassis manufacturer. It will remain the color and commercial quality finish as provided. The primary color will be Pierce #90 candy apple red.
- 4.3.118.2** The exterior custom body painting finishing process as follows:
- 4.3.118.3** Manual Surface Preparation - All exposed metal surfaces on the custom body will be thoroughly cleaned and prepared for painting. Surfaces that will not be painted include all chrome plated, stainless steel, anodized aluminum and bright aluminum treadplate. Each imperfection on the exterior metal surface will be removed or filled and then sanded smooth for a smooth appearance. All seams will be sealed before painting.
- 4.3.118.4** Chemical Cleaning and Treatment - The metal surfaces will be properly cleaned using an acid etching system. Surfaces are chemically cleaned to remove all dirt, oil, grease and metal oxides to ensure the subsequent coatings bond well. An ultra-pure water final rinse will be applied to all metal surfaces, excluding undercarriage components, at the conclusion of the metal treatment process.
- 4.3.118.5** Sealer Primer Coat - A two (2) component sealer primer coat will be applied.
- 4.3.118.6** Topcoat Paint - Urethane base coat will be applied to opacity for correct color matching.
- 4.3.118.7** Clearcoat - Two (2) coats of an automotive grade two (2) component urethane will be applied. Lap style doors will be clear coated to match the body. Roll-up doors will not be clear coated, and the standard roll-up door warranty will apply.
- 4.3.118.8** All removable items such as brackets, compartment doors, door hinges, trim, etc. will be removed and painted separately to insure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly.
- 4.3.118.9** The chassis will be painted by the chassis manufacturer and will remain the commercial grade finish as provided. To ensure a good color match between the body and chassis, the apparatus manufacturer and chassis manufacturer will have a mutually preapproved paint color program. The apparatus will be painted Pierce #90 candy apple red.
- 4.3.118.10** Prior to reassembly and reinstallation of lights, handrails, door hardware and any miscellaneous body items, an isolation tape or gasket material must be used to prevent damage to the finish painted surfaces. A nylon washer will be installed under each acorn nut or metal screw that is fastened directly to a painted body surface.
- 4.3.118.11** Contractor will meet or exceed all current State (his) regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions:
- 4.3.118.12** Topcoats and primers must be chrome and lead free.
- 4.3.118.13** Metal treatment chemicals must be chrome free. The wastewater generated in the metal treatment process must be treated to remove any other heavy metals.
- 4.3.119 COMPARTMENT INTERIOR FINISH:** The interior of the body compartments will be left unpainted and have the natural finish.
- 4.3.120 REFLECTIVE STRIPES:** Three (3) reflective stripes will be provided across the front of the vehicle and along the sides of the body. The reflective band will consist of a 1.00" white stripe at the top with a 1.00" gap then a 6.00" white stripe with a 1.00" gap and a 1.00" white stripe on the bottom.
- 4.3.121 CHEVRON STRIPING ON THE FRONT BUMPER**
- 4.3.121.1** There will be alternating chevron striping located on the front bumper.
- 4.3.121.2** The colors will be red and fluorescent yellow diamond grade.
- 4.3.121.3** The size of the striping will be 4.00".
- 4.3.121.4** CHEVRON STRIPING, REAR
- 4.3.121.5** There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus.
- 4.3.121.6** The colors will be red and fluorescent yellow diamond grade.
- 4.3.121.7** Each stripe will be 6.00" in width.

- 4.3.121.8** This will meet the requirements of NFPA 1901, 2009 edition, which states that at least 50% of the rear surface will be covered with chevron striping.
- 4.3.122 MOUNTING PLATES, REFLECTIVE STRIPE:** Due to the surface texture of the aluminum treadplate fender panels and/or compartment doors, the required reflective striping material shall be applied to smooth aluminum plates. These plates shall then be fastened to the body as needed to meet NFPA reflective striping requirements.
- 4.3.123 REFLECTIVE STRIPE, CAB DOORS:** A ruby red reflective stripe will be provided on the interior of each cab door. This stripe will be a minimum of 96.00 square inches and will meet the NFPA 1901 requirement.
- 4.3.124 INFORMATION**
- 4.3.124.1** At time of delivery, complete operation and maintenance manuals covering the apparatus will be provided. A permanent plate will be mounted in the driver's compartment specifying the quantity and type of fluids required including engine oil, engine coolant, transmission, pump transmission lubrication, pump primer and drive axle.
- 4.3.124.2** At the time of delivery Pierce/vendor will also provide one (1) 39-minute, professionally produced apparatus safety video, in DVD format. This video will address key safety considerations for personnel to follow when they are driving, operating, and maintaining the apparatus, including the following: vehicle pre-trip inspection, chassis operation, pump operation, and safety during maintenance.
- 4.3.125 PERFORMANCE TESTS:** A road test will be conducted with the apparatus fully loaded and a continuous run of no less than ten (10) miles. During that time the apparatus will show no loss of power, nor will it overheat. The transmission drive shaft or shafts and the axles will run quietly and be free of abnormal vibration or noise. The apparatus will meet NFPA 1901 acceleration requirements and NFPA 1901 braking requirements. The apparatus when fully loaded will not have less than 25 percent nor more than 50 percent on the front axle and not less than 50 percent nor more than 75 percent on the rear axle.
- 4.3.126 NFPA 2024 STANDARDS**
- 4.3.126.1** This apparatus specification includes a commercial chassis that has not been certified to meet the requirements of NFPA 1900 by the chassis manufacturer. Although this chassis may comply with certain aspects of the standard, Pierce has not received certification from this chassis manufacturer that all criteria have been met. The body as built by the manufacturer must comply with the NFPA standards effective January of 2024
- 4.3.126.2** Certification of slip resistance of all stepping, standing and walking surfaces must be supplied with delivery of the apparatus.
- 4.3.126.3** A plate that is highly visible to the driver while seated will be provided. This plate will show the overall height, length, and gross vehicle weight rating.
- 4.3.126.4** The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications.
- 4.3.126.5** An official of the company will designate, in writing, who is qualified to witness and certify test results.
- 4.3.126.6 NFPA COMPLIANCY:** Apparatus proposed by the bidder will meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in the current edition at time of contract execution. Fire Department's specifications that differ from NFPA specifications will be indicated in the proposal as "non-NFPA."
- 4.3.127 PUMP TEST:** The rated water pump will be tested, approved, and certified by an ISO certified independent third-party testing agency at the manufacturer's expense. The test results, along with the pump manufacturer's certification of hydrostatic test, the engine manufacturer's certified brake horsepower curve, and the manufacturer's record of pump construction details will be forwarded to the Fire Department.
- 4.3.128 SUPPORT WEBSITE**
- 4.3.128.1** The Warranty screens will provide dealers the ability to submit electronically warranty claims directly to Pierce Manufacturing for reimbursement.

- 4.3.128.2** The Technical Support screens will provide access to all currently published Operation and Maintenance and Service Publications. Access to Pierce Manufacturing Service Bulletins and Work Instructions, containing information on current service topics and recommendations will be provided.
- 4.3.128.3** The Training screens will provide access to upcoming training classes offered by Pierce Manufacturing along with interactive electronic learning modules (Operators Guides) covering the operation of major vehicle components will be provided. Access to training manuals used in Pierce Manufacturing training classes will be provided.
- 4.3.129** **REFERENCE DRAWING:** A drawing of the proposed apparatus will be provided for review. This drawing will indicate the major components such as the chassis make and model, body configuration and door style, location of the lights, siren, horns, compartments, major components, etc.
- 4.3.130** **ELECTRICAL WIRING DIAGRAMS:** Two (2) electrical wiring diagrams, prepared for the body as it interfaces with the commercial chassis, will be provided.
- 4.3.131** **CD MANUAL, BODY PARTS ONLY**
- 4.3.131.1** A custom parts manual for the Pierce® installed parts only will be provided in CD format with the completed unit.
- 4.3.131.2** The manual will contain the following:
- 4.3.131.3** Job number
- 4.3.131.4** Part numbers with full descriptions
- 4.3.131.5** Table of contents
- 4.3.131.6** Parts section sorted in functional groups reflecting a major system, component, or assembly
- 4.3.131.7** Parts section sorted in Alphabetical order
- 4.3.131.8** Instructions on how to locate parts
- 4.3.131.9** The manual will be specifically written for the body model being purchased. It will not be a generic manual for a multitude of different bodies.
- 4.3.132** **SERVICE PARTS INTERNET SITE:** The service parts information included in this manual are also available on the vendor provided website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.
- 4.3.133** **WARRANTY**
- 4.3.133.1** The chassis manufacturer will provide a three (3) year, 100,000-mile warranty.
- 4.3.133.2** The commercial chassis manufacturer's paint warranty will apply to the paint on the chassis only.
- 4.3.133.3** The transmission will have a five (5) year/unlimited mileage warranty covering 100 percent parts and labor. The warranty to be provided by Allison Transmission and not apparatus builder.
- 4.3.133.4** The apparatus body limited warranty certificate, WA0009, is included with this proposal. This will cover for 10 Years.
- 4.3.133.5** Except as provided below, and provided the vehicle will have been placed in service within sixty (60) days after delivery to the City as established by the original invoice, for a period ending on the first to occur of the expiration of ten years or 100,000 miles of vehicle use after delivery to the City. Vendor shall provide a Pierce Manufacturing Inc. ("Pierce") warranty to the user that the stainless-steel piping that is 3.00" and smaller in diameter in its first Fire and Rescue Apparatus vehicles will be free of structural failures caused by defective design, workmanship, or perforation caused by corrosion. This limited warranty will apply only if the vehicle is properly maintained and used in service which is normal to the particular vehicle. Normal service means service which does not subject the vehicle to stresses or impacts greater than normally result from the careful use of the vehicle or chassis. If the City discovers a defect or nonconformity, Siddons Martin must notify Pierce in writing within thirty (30) days after the date of discovery. This limited warranty is not transferable by the first user.
- 4.3.133.6** Vendor shall ensure Pierce repairs or replaces without charge, as Pierce may elect, the stainless-steel piping or components which Pierce determines to have failed due to defective design, workmanship, or perforation caused by corrosion.
- 4.3.133.7** A copy of the Pierce warranty will be included with vendor's proposal.
- 4.3.133.8** A UPF poly water tank limited warranty certificate, WA0195, is included with this proposal.

4.3.133.9 TEN (10) YEAR PRO-RATED PAINT AND CORROSION

4.3.134 CERTIFICATIONS

- 4.3.134.1** The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1901, current edition, section 4.13, Vehicle Stability. The certification will be provided at the time of bid.
- 4.3.134.2** The cab has been tested to and passed the following standards:
- 4.3.134.3** ECE Regulation No.29
- 4.3.134.4** SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks.
- 4.3.134.5** The bidder will provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.
- 4.3.134.6** The manufacturer of the apparatus will provide the following:
- 4.3.134.7** Documentation of the electrical system performance tests.
- 4.3.134.8** A written load analysis, which will include the following:
- 4.3.134.9** The nameplate rating of the alternator.
- 4.3.134.10** The alternator rating under the conditions specified per:
 - 4.3.134.10.1** Applicable NFPA 1900 or 1906 (Current Edition).
 - 4.3.134.10.2** The minimum continuous load of each component that is specified per:
 - 4.3.134.10.3** Applicable NFPA 1900 or 1906 (Current Edition).
 - 4.3.134.10.4** Additional loads that, when added to the minimum continuous load, determine the total connected load.
 - 4.3.134.10.5** Each individual intermittent load.

All of the above listed items will be provided by the bidder per the applicable NFPA 1900 or 1906 (Current Edition).

005 - SUPPLEMENTAL TERMS & CONDITIONS

Original Contract Term.

This contract shall begin upon the effective date of the ordinance awarding the contract, or date specified in the award letter if this contract does not exceed \$50,000.00. This contract shall terminate upon completion of all work described herein or delivery of all goods ordered, as applicable.

Cooperative Contract Provisions.

Term Consistent with Cooperative Contract. Notwithstanding anything to the contrary herein, no new orders may be placed hereunder after the expiration or termination of the underlying cooperative contract. Renewals cannot extend beyond the term of the underlying cooperative contract. Extensions cannot extend beyond the term of the underlying cooperative contract.

Contract Documents. The terms and conditions for performance and payment of compensation for this contract are set forth in the following contract documents, true and correct copies of which are attached hereto and fully incorporated herein for all purposes:

This Request for Offer, including any attachments identified herein and addenda issued by City prior to acceptance of an offer from Offeror;

Any Purchase Orders Issued hereunder by City of San Antonio ("City"); and

Exhibit I – All applicable terms and conditions of the Cooperative Purchasing Contract number 746-24 through BuyBoard Cooperative Purchasing.

Order of Priority of Contract Documents. Should a conflict arise among the provisions of the contract documents, this RFO and any Purchase Order issued hereunder shall govern over Exhibit I, unless otherwise specifically provided herein.

This RFO includes the following: Instructions to Offerors, General Terms and Conditions, Supplemental Terms and Conditions, Product Specifications and Description of Services, Definitions, Price Schedule, any Attachments identified herein.

Warranty.

The warranty specified in Exhibit I, if any, a minimum of 90-days product guarantee or the manufacturer's standard commercial warranty, whichever is greater, shall apply to all products and/or services purchased under this RFO, unless otherwise specified in the Specifications/Scope of Services section of this RFO. This warranty shall provide for replacement of defective merchandise, parts, and labor, and shall include pick-up of the defective merchandise from City and delivery of the replacement(s) to the same location. The warranty shall be effective from the date of acceptance of the merchandise, or completion of the service, as applicable.

Rejection of Disclaimers of Warranties & Limitations Of Liability.

ANY TERM OR CONDITION IN EXHIBIT I, OR IN ANY DOCUMENT FURNISHED BY VENDOR, DISCLAIMING THE IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR ATTEMPTING TO LIMIT VENDOR'S LIABILITY SHALL BE OF NO FORCE OR EFFECT, AND SHALL BE STRICKEN FROM THE CONTRACT DOCUMENTS AS IF NEVER CONTAINED THEREIN.

Insurance.

Prior to the commencement of purchase and delivery of vehicles under this Agreement, CONTRACTOR must provide a completed Certificate(s) of Insurance to CITY's San Antonio Fire Department (SAFD). The certificate must be:

- clearly labeled with the name of the contract in the Description of Operations block;
- completed by an agent and signed by a person authorized by the insurer to bind coverage on its behalf (CITY will not accept Memorandum of Insurance or Binders as proof of insurance); and
- properly endorsed and have the agent's signature, and phone number.

Certificates may be mailed or sent via email, directly from the insurer's authorized representative. CITY shall have no duty to pay or perform under this Agreement until such certificate and endorsements have been received and approved by CITY'S SAFD. No officer or employee, other than CITY'S Risk Manager, shall have authority to waive this requirement.

If the City does not receive copies of insurance endorsement, then by executing this RFO, CONTRACTOR certifies and represents that its endorsements do not materially alter or diminish the insurance coverage for this contract.

The City's Risk Manager reserves the right to modify the insurance coverages, their limits, and deductibles prior to the scheduled event or during the effective period of this Agreement based on changes in statutory law, court decisions, and changes in the insurance market which presents an increased risk exposure.

CONTRACTOR shall obtain and maintain in full force and effect for the duration of this Agreement, at CONTRACTOR'S sole expense, insurance coverage written on an occurrence basis, by companies authorized and admitted to do business in the State of Texas and with an A.M. Best's rating of no less than A- (VII), in the following types and for an amount not less than the amount listed below. If the CONTRACTOR claims to be self-insured, they must provide a copy of their declaration page so the CITY can review their deductibles:

TYPE	AMOUNTS
1. Workers' Compensation 2. Employers' Liability	Statutory \$1,000,000/\$1,000,000/\$1,000,000
3. Commercial General Liability Insurance to include coverage for the following: a. Premises/Operations b. Products/Completed Operations c. Personal/Advertising Injury d. Independent Contractors*	For Bodily Injury and Property Damage of \$1,000,000 per occurrence; \$2,000,000 General Aggregate, or its equivalent in Umbrella Liability Coverage
4. Business Automobile Liability a. Owned/leased vehicles b. Non-owned vehicles c. Hired Vehicles	Combined Single Limit for Bodily Injury and Property Damage of \$1,000,000 per occurrence
*5.Products liability	\$1,000,000 per occurrence; \$2,000,000 general aggregate, or its equivalent in Umbrella Liability Coverage.
*If Applicable	

CONTRACTOR must require, by written contract, that all subcontractors providing goods or services under this Agreement obtain the same insurance coverages required of CONTRACTOR and provide a certificate of insurance and endorsement that names CONTRACTOR and CITY as additional insureds. CONTRACTOR shall provide CITY with subcontractor certificates and endorsements before the subcontractor starts work.

If a loss results in litigation, then the CITY is entitled, upon request and without expense to the City, to receive copies of the policies, declaration page and all endorsements. CONTRACTOR must comply with such requests within 10 days by submitting the requested insurance documents to the CITY at the following address:

City of San Antonio
Attn: San Antonio Fire Department
P.O. Box 839966
San Antonio, Texas 78283-3966

CONTRACTOR's insurance policies must contain or be endorsed to contain the following provisions:

- Name CITY and its officers, officials, employees, volunteers, and elected representatives as additional insureds by endorsement, as respects operations and activities of, or on behalf of, the named insured performed under contract with CITY. The endorsement requirement is not applicable for workers' compensation and professional liability policies.
- Endorsement that the "other insurance" clause shall not apply to CITY where CITY is an additional insured shown on the policy. CITY's insurance is not applicable in the event of a claim.
- Contractor shall submit a waiver of subrogation to include, workers' compensation, employers' liability, general liability and auto liability policies in favor of CITY; and

- Provide 30 days advance written notice directly to CITY of any suspension, cancellation, non-renewal or materials change in coverage, and not less than ten (10) calendar days advance written notice for nonpayment of premium.

Within five (5) calendar days of a suspension, cancellation, material change in coverage, or non-renewal of coverage, CONTRACTOR shall provide a replacement Certificate of Insurance and applicable endorsements to CITY. CITY shall have the option to suspend CONTRACTOR'S performance should there be a lapse in coverage at any time during this Agreement. Failure to provide and to maintain the required insurance shall constitute a material breach of this Agreement.

In addition to any other remedies CITY may have upon CONTRACTOR'S failure to provide and maintain any insurance or policy endorsements to the extent and within the time required, CITY may order CONTRACTOR to stop work and/or withhold any payment(s) which become due to CONTRACTOR under this Agreement until CONTRACTOR demonstrates compliance with requirements.

Nothing contained in this Agreement shall be construed as limiting the extent to which CONTRACTOR may be held responsible for payments of damages to persons or property resulting from CONTRACTOR'S or its subcontractors' performance of the work covered under this Agreement.

CONTRACTOR'S insurance shall be deemed primary and non-contributory with respect to any insurance or self - insurance carried by City for liability arising out of operations under this Agreement.

The insurance required is in addition to and separate from any other obligation contained in this Agreement and no claim or action by or on behalf of City shall be limited to insurance coverage provided.

CONTRACTOR and any subcontractor are responsible for all damage to their own equipment and/or property result from their own negligence.

Incorporation of Attachments.

Each of the attachments listed below is an essential part of this contract, which governs the rights and duties of the parties, incorporated herein by reference, and shall be interpreted in the order of priority as appears below, with this document taking priority over all attachments:

Attachment A – Price Schedule

Attachment B – City of San Antonio Local Preference Program Tracking Form

Attachment C – Veteran-Owned Small Business Preference Program Tracking Form

Attachment D – Certificate of Interested Parties (Form 1295)

Attachment E – Working with COSA

006 - GENERAL TERMS & CONDITIONS

Electronic Offer Equals Original. If Vendor is submitting an electronic offer, City and Vendor each agree that this transaction may be conducted by electronic means, as authorized by Chapter 322, Texas Business & Commerce Code, known as the Electronic Transactions Act.

Delivery of Goods/Services.

Destination Contract. Vendor shall deliver all goods and materials F.O.B., City of San Antonio's designated facility, inside delivery, freight prepaid, to the address provided in this RFO or, if different, in the Purchase Order. Vendor shall bear the risk of loss until delivery. Freight charges will be paid only when expedited delivery is requested and approved in writing by City. Vendor shall be responsible for furnishing necessary personnel or equipment and/or making necessary arrangements to off load at City of San Antonio facility, unless otherwise noted herein.

Failure to Deliver. When delivery is not met as provided for in the contract, City may make the purchase on the open market, with any cost in excess of the contract price paid by Vendor, in addition to any other direct, indirect, consequential or incidental damages incurred by City as a result thereof. In addition, Vendor may be removed from City's list of eligible bidders.

Purchase Orders. Each time a City department wishes to place an order against this contract, it will issue Vendor a purchase order. Vendor must have the purchase order before making any delivery.

Acceptance by City. City shall have a reasonable time (but not less than 30 days) after receipt to inspect the goods and services tendered by Vendor. City at its option may reject all or any portion of such goods or services which do not, in City's sole discretion, comply in every respect with all terms and conditions of the contract. City may elect to reject the entire goods and services tendered even if only a portion thereof is nonconforming. If City elects to accept nonconforming goods and services, City, in addition to its other remedies, shall be entitled to deduct a reasonable amount from the price thereof to compensate City for the nonconformity. Any acceptance by City, even if non-conditional, shall not be deemed a waiver or settlement of any defect in such goods and services.

Testing. After award of contract, City may, at its sole option, test the product delivered to ensure it meets specifications. Initial testing shall be at City's expense. However, if the product does not to meet specifications, Vendor shall reimburse City for the costs of testing. City may withhold the cost of testing from any amounts owed to Vendor under this or any other contract, or invoice Vendor for same. If invoiced, Vendor shall pay City within 30 calendar days' of the invoice.

Invoicing and Payment.

Invoice Submissions. City requires all original first time invoices to be submitted directly to the Accounts Payable section of the Finance Department. The preferred method of delivery is electronically to the following e-mail address:

accounts.payable@sanantonio.gov

Invoices submitted electronically to the e-mail address above must be in separate .pdf format file. Multiple invoices cannot be submitted in a single .pdf file; however, Vendor may submit multiple, separate invoice files in a single e-mail. Any required documentation in support of the invoice should be compiled directly behind the invoice in the same .pdf file. Each electronically submitted file must have a unique identifying name that is not the same as any other file name.

Invoices submitted by electronic submission are only considered "original" when the submission comes directly from the Vendor to Accounts Payable using this e-mail address. Vendor may courtesy copy the ordering City department personnel on the e-mail.

Vendors not able to submit invoices with the required file formatting above may mail original invoices, on white paper only, to: City of San Antonio, Attn: Accounts Payable, P.O. Box 839976, San Antonio, Texas 78283-3976.

Information Required On Invoice.

All invoices must be in a form and content approved by the City. City may require modification of invoices if necessary in order to satisfy City that all billing is proper and pursuant to the terms of the contract. Invoices are required to show each City Purchase Order Number. Invoices must be legible. Items billed on invoices must be specific as to applicable stock, manufacturer, catalog or part number (if any). All invoices must show unit prices for each item being billed, the quantity of items being billed and the total for each item, as well as the total for all items on the invoice. If prices are based on list prices basis, then the list prices, the percentage discount or percentage surcharge, net unit prices, extensions and net total prices must be shown. Prompt payment discounts offered shall be shown separately on the invoice.

Payment by City.

In accordance with the Texas Prompt Payment Act, City shall have not less than 30 days to pay for goods or services. Time for payment, including payment under discount terms, will be computed from the later of: (1) the date City receives conforming goods under the contract; (2) the date performance of the service under the contract is completed; or (3) the date City receives a correct and valid invoice for the goods or services. Payment is deemed to be made on the date of mailing of the check. Payment is made in US dollars only.

This provision shall not apply where there is a bona fide dispute between City and Vendor about the goods delivered or the service performed that causes the payment to be late, or where the invoice is not mailed to the address provided herein.

The payment amount due on invoices may not be manually altered by City personnel. Once disputed items are reconciled, Vendor must submit a corrected invoice or a credit memorandum for the disputed amount.

NECESSITY OF TIMELY INVOICE / WAIVER OF PAYMENT. NOTWITHSTANDING THE FORGOING, CITY CANNOT PAY FOR ANY GOODS OR SERVICES WITHOUT AN INVOICE. VENDOR MUST INVOICE CITY NO LATER THAN 90 CALENDAR DAYS FROM THE DATE GOODS ARE DELIVERED OR SERVICES RENDERED. FAILURE TO SUBMIT AN INVOICE WITHIN SAID 90 DAY SHALL NEGATE ANY LIABILITY ON THE PART OF CITY AND CONSTITUTE A **WAIVER** BY VENDOR OF ANY AND ALL RIGHT OR CLAIMS TO COLLECT MONEYS THAT VENDOR MAY RIGHTFULLY BE OTHERWISE ENTITLED TO FOR GOODS OR SERVICES PERFORMED.

The total price for all goods and/or services is shown on the Price Schedule. No additional fees or expenses of Vendor shall be charged by Vendor nor be payable by City. The parties hereby agree that all compensable expenses of Vendor are shown on the Price Schedule. If there is a discrepancy on the Price Schedule between the unit price for an item, and the extended price, the unit price shall govern.

Amendments. Except where the terms of this contract expressly provide otherwise, any alterations, additions, or deletions to the terms hereof, shall be effected by amendment, in writing, executed by both City and Vendor. The Director of the Purchasing and General Services Department, or Director's designee, shall have authority to execute amendments on behalf of City without further action by the San Antonio City Council, subject to and contingent upon appropriation of funds for any increase in expenditures by City.

Termination.

Termination-Breach. Should vendor fail to fulfill in a timely and proper manner, as determined solely by the Director, its material obligations under this contract, or violate any of the material terms of this contract, City shall have the right to immediately terminate the contract in whole or in part. Notice of termination shall be provided in writing to the Vendor, effective upon the date set forth in the notice. City may, in City's sole discretion, provide an opportunity for Vendor to cure the default. If City elects to offer an opportunity to cure, City shall provide notice to Vendor specifying the matters in default and the cure period. If Vendor fails to cure the default within the cure period, City shall have the right, without further notice, to terminate the contract in whole or in part. Such termination shall not relieve Vendor of any liability to the City for damages sustained by virtue of any breach by Vendor.

Termination-Notice. City may terminate this contract, in whole or in part, without cause. City shall be required to give Vendor notice ten days prior to the date of termination of the contract without cause.

Termination-Funding. City retains the right to terminate this contract at the expiration of each of City's budget periods. This contract is conditioned on a best efforts attempt by City to obtain and appropriate funds for payment of any debt due by City herein.

Termination by City may be effected by Director, without further action by the San Antonio City Council.

Independent Contractor. Vendor covenants and agrees that it is an independent contractor and not an officer, agent, servant or employee of City. City shall not be liable for any claims which may be asserted by any third party occurring in connection with the services to be performed by Vendor under this contract and that Vendor has no authority to bind City. The doctrine of respondeat superior shall not apply as between City and Vendor.

INDEMNIFICATION.

VENDOR covenants and agrees to FULLY INDEMNIFY, DEFEND and HOLD HARMLESS, CITY and the elected officials, employees, officers, directors, volunteers and representatives of CITY, individually and collectively, from and against any and all costs, claims, liens, damages, losses, expenses, fees, fines, penalties, proceedings, actions, demands, causes of action, liability and suits of any kind and nature, including but not limited to, personal or bodily injury, death and property damage, made upon CITY directly or indirectly arising out of, resulting from or related to VENDOR'S activities under this Agreement, including any acts or omissions of VENDOR, any agent, officer, director, representative, employee, consultant or subcontractor of VENDOR, and their respective officers, agents employees, directors and representatives while in the exercise of the rights or performance of the duties under this Agreement. The indemnity provided for in this paragraph shall not apply to any liability resulting from the negligence of CITY, its officers or employees, in instances where such negligence causes personal injury, death, or property damage. IN THE EVENT VENDOR AND CITY ARE FOUND JOINTLY LIABLE BY A COURT OF COMPETENT JURISDICTION, LIABILITY SHALL BE APPORTIONED COMPARATIVELY IN ACCORDANCE WITH THE LAWS FOR THE STATE OF TEXAS, WITHOUT, HOWEVER, WAIVING ANY GOVERNMENTAL IMMUNITY AVAILABLE TO CITY UNDER TEXAS LAW AND WITHOUT WAIVING ANY DEFENSES OF THE PARTIES UNDER TEXAS LAW. In addition, Vendor agrees to indemnify, defend, and hold City harmless from any claim involving patent infringement, trademarks, trade secrets, and copyrights on goods supplied.

The provisions of this INDEMNITY are solely for the benefit of the parties hereto and not intended to create or grant any rights, contractual or otherwise, to any other person or entity. VENDOR shall advise CITY in writing within 24 hours of any claim or demand against CITY or VENDOR known to VENDOR related to or arising out of VENDOR's activities under this AGREEMENT and shall see to the investigation and defense of such claim or demand at VENDOR's cost. CITY shall have the right, at its option and at its own expense, to participate in such defense without relieving VENDOR of any of its obligations under this paragraph.

Assignment. Except as otherwise stated herein, Vendor may not sell, assign, pledge, transfer or convey any interest in this contract, nor delegate the performance of any duties hereunder, by transfer, by subcontracting or any other means, without the consent of Director. As a condition of such consent, if such consent is granted, Vendor shall remain liable for completion of the services and provision of goods outlined in this contract in the event of default by the successor vendor, assignee, transferee or subcontractor. Any attempt to transfer, pledge or otherwise assign this Contract without said written approval, shall be void ab initio and shall confer no rights upon any third person.

Ownership of Documents. Pursuant to Texas Local Government Code Chapter 201, any and all Records produced by Vendor pursuant to the provisions of this contract are the exclusive property of City; and no such Record shall be the subject of any copyright or proprietary claim by Vendor. The term "Record" as used herein shall mean any document, paper, letter, book, map, photograph, sound or video recording, microfilm, magnetic tape, electronic medium, or other information recording medium, regardless of physical form or characteristic. Vendor understands and acknowledges that as the exclusive owner of any and all such Records, City has the right to use all such Records as City desires, without restriction.

Records Retention.

Vendor and its subcontractors, if any, shall properly, accurately and completely maintain all documents, papers, and records, and other evidence pertaining to the services rendered hereunder ("Documents"), and shall make such Documents available to City at their respective offices, at all reasonable times and as often as City may deem necessary during the contract period, including any extension or renewal hereof, and the record retention period established herein, for purposes of audit, inspection, examination, and making excerpts or copies of same by City and any of its authorized representatives.

Vendor shall retain any and all Documents produced as a result of services provided hereunder for a period of four years ("Retention Period") from the date of termination of the contract. If, at the end of the Retention Period, there is litigation or other questions arising from, involving or concerning these Documents or the services provided hereunder, Vendor shall retain the records until the resolution of such litigation or other such questions. Vendor acknowledges and agrees that City shall have access to any and all such Documents at any and all times, as deemed necessary by City, during said Retention Period. City may, at its election, require Vendor to return the documents to City at Vendor's expense prior to or at the conclusion of the Retention Period. In such event, Vendor may retain a copy of the documents.

Vendor shall notify City, immediately, in the event Vendor receives any requests for information from a third party, which pertain to the Documents referenced herein. Vendor understands and agrees that City will process and handle all such requests.

Disclosure Requirements for Certain Government Contracts. For contracts (1) with a stated expenditure of at least \$1 million in public funds for the purchase of goods or services by the City, or (2) that result in the expenditure of at least \$1 million in public funds for the purchase of goods or services by the City in a given fiscal year, Vendor acknowledges that the requirements of the Texas Public Information Act, Government Code, Chapter 552, Subchapter J, pertaining to the preservation and disclosure of Contracting Information maintained by the City or sent between the City and a vendor, contractor, potential vendor, or potential contractor, may apply to this offer and any resulting contract. Vendor agrees that the contract can be terminated if Vendor knowingly or intentionally fails to comply with a requirement of that subchapter.

By submitting an Offer, Offeror warrants and certifies, and a contract awarded pursuant to this RFO is made in reliance thereon, that it, has not knowingly or intentionally failed to comply with this subchapter in a previous offer or contract. City hereby relies on Vendor's certification, and if found to be false, City may reject the offer or terminate the Contract for material breach.

Severability. If any clause or provision of this contract is held invalid, illegal or unenforceable under present or future federal, state or local laws, including but not limited to the City Charter, City Code, or ordinances of the City of San Antonio, Texas, then and in that event it is the intention of the parties hereto that such invalidity, illegality or unenforceability shall not affect any other clause or provision hereof and that the remainder of this contract shall be construed as if such invalid, illegal or unenforceable clause or provision was never contained herein. It is also the intention of the parties hereto that in lieu of each clause or provision of this contract that is invalid, illegal, or unenforceable, there be added as a part of the contract a clause or provision as similar in terms to such invalid, illegal or unenforceable clause or provision as may be possible, legal, valid and enforceable.

Compliance with Law. Vendor shall provide and perform all services required under this Agreement in compliance with all applicable federal, state and local laws, rules and regulations.

Certifications. Vendor warrants and certifies that Vendor and any other person designated to provide services hereunder has the requisite training, license and/or certification to provide said services, and meets all competence standards promulgated by all other authoritative bodies, as applicable to the services provided herein.

Non-waiver of Performance. Unless otherwise specifically provided for in this Agreement, a waiver by either Party of a breach of any of the terms, conditions, covenants or guarantees of this Agreement shall not be construed or held to be a waiver of any succeeding or preceding breach of the same or any other term, condition, covenant or guarantee herein contained. Further, any failure of either Party to insist in any one or more cases upon the strict performance of any of the covenants of this Agreement, or to exercise any option herein contained, shall in no event be construed as a waiver or relinquishment for the future of such covenant or option. In fact, no waiver, change, modification or discharge by either party hereto of any provision of this Agreement shall be deemed to have been made or shall be effective unless expressed in writing and signed by the party to be charged. No act or omission by a Party shall in any manner impair or prejudice any right, power, privilege, or remedy available to that Party hereunder or by law or in equity, such rights, powers, privileges, or remedies to be always specifically preserved hereby.

Venue. Venue of any court action brought directly or indirectly by reason of this contract shall be in Bexar County, Texas. This contract is made and is to be performed in Bexar County, Texas, and is governed by the laws of the State of Texas.

Non-discrimination. As a condition of entering into this agreement, Vendor represents and warrants that it will comply with City's Commercial Nondiscrimination Policy, as described under Section III.C.1 of the SBEDA Ordinance. As part of such compliance, Vendor shall not discriminate on the basis of race, color, religion, ancestry or national origin, sex, age, marital status, sexual orientation, or on the basis of disability or other unlawful forms of discrimination in the solicitation, selection, hiring or commercial treatment of subcontractors, vendors, suppliers, or commercial customers, nor shall Vendor retaliate against any person for reporting instances of such discrimination. Vendor shall provide equal opportunity for subcontractors, vendors and suppliers to participate in all of its public sector and private sector subcontracting and supply opportunities, provided that nothing contained in this clause shall prohibit or limit otherwise lawful efforts to remedy the effects of marketplace discrimination that have occurred or are occurring in the City's Relevant Marketplace. Vendor understands and agrees that a material violation of this clause shall be considered a material breach of this agreement and may result in termination of this agreement, disqualification of Vendor from participating in City contracts, or other sanctions. This clause is not enforceable by or for the benefit of, and creates no obligation to, any third party. Vendor shall include this nondiscrimination clause in all subcontracts for the performance of this contract.

As a party to this contract, Vendor understands and agrees to comply with the *Non-Discrimination Policy* of the City of San Antonio contained in Chapter 2, Article X of the City Code and further, shall not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, veteran status, age or disability, unless exempted by state or federal law, or as otherwise established herein.

Attorney's Fees. The Parties hereto expressly agree that, in the event of litigation, each party hereby waives its right to payment of attorneys' fees.

State Prohibitions on Contracts:

This section only applies to a contract that:

- (1) is between a governmental entity and a company with 10 or more full-time employees; and
- (2) has a value of \$100,000 or more that is to be paid wholly or partly from public funds of the governmental entity.

"Company" means a for-profit organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, or limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company, or affiliate of those entities or business associations that exists to make a profit. This term does not include a sole proprietorship.

Prohibition on Contracts with Companies Boycotting Israel.

Texas Government Code §2271.002 provides that a governmental entity may not enter into a contract with a company for goods or services, unless the contract contains a written verification from the company that it: (1) does not boycott Israel; and (2) will not boycott Israel during the term of the contract.

"Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes.

By submitting an offer to or executing contract documents with the City of San Antonio, Company hereby verifies that it does not boycott Israel, and will not boycott Israel during the term of the contract. City hereby relies on Company's verification. If found to be false, City may terminate the contract for material breach.

Prohibition on Contracts with Companies Boycotting Certain Energy Companies.

Texas Government Code §2274 provides that a governmental entity may not enter into a contract with a company for goods or services, unless the contract contains a written verification from the company that it: (1) does not boycott energy companies; and (2) will not boycott energy companies during the term of the contract.

"Boycott energy company" means, without an ordinary business purpose, refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations with a company because the company: (A) engages in the exploration, production, utilization, transportation, sale, or manufacturing of fossil fuel-based energy and does not commit or pledge to meet environmental standards beyond applicable federal and state law; or (B) does business with a company described in (A).

By submitting an offer to or executing contract documents with the City of San Antonio, Company hereby verifies that it does not boycott energy companies and will not boycott energy companies during the term of the contract. City hereby relies on Company's verification. If found to be false, City may terminate the contract for material breach.

Prohibition on Contracts with Companies that Discriminate Against Firearm and Ammunition Industries.

Texas Government Code §2274 provides that a governmental entity may not enter into a contract with a company for goods or services, unless the contract contains a written verification from the company that it: (1) does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association; and (2) will not discriminate during the term of the contract against a firearm entity or firearm trade association.

"Discriminate against a firearm entity or firearm trade association": (A) means, with respect to the entity or association, to: (i) refuse to engage in the trade of any goods or services with the entity or association based solely on its status as a firearm entity or firearm trade association; (ii) refrain from continuing an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association; or (iii) terminate an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association.

By submitting an offer to or executing contract documents with the City of San Antonio, Company hereby verifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association; and will not discriminate during the term of the contract against a firearm entity or firearm trade association. City hereby relies on Company's verification. If found to be false, City may terminate the contract for material breach.

CONTRACTS WITH COMPANIES ENGAGED IN BUSINESS WITH IRAN, SUDAN, OR FOREIGN TERRORIST ORGANIZATIONS PROHIBITED. Texas Government Code §2252.152 provides that a governmental entity may not enter into a governmental contract with a company that is identified on a list prepared and maintained under Texas Government Code §§2270.0201 or 2252.153. Vendor hereby certifies that it is not identified on such a list. City hereby relies on Vendor's certification. If found to be false, or if Vendor is identified on said list during the course of its contract with City, City may terminate the Contract for material breach.

Delinquent Taxes. In the event that Vendor is or subsequently becomes delinquent in the payment of taxes owed to the City of San Antonio, City reserves the right to deduct any delinquent taxes from payments that City may owe to the delinquent Vendor as a result of this contract.

Binding Contract. This contract shall be binding on and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, legal representatives, and successors and assigns, except as otherwise expressly provided for herein.

Entire Agreement. This contract, including City's final electronically posted online version, together with its authorizing ordinance, and its price schedule(s), addendums, attachments, purchase orders, and exhibits, if any, constitutes the final and entire agreement between the parties hereto and contains all of the terms and conditions agreed upon. No other agreements, oral or otherwise, regarding the subject matter of this contract shall be deemed to exist or to bind the parties hereto, unless same be in writing, dated subsequent to the date hereof, and be duly executed by the parties, in accordance with the Amendment provision herein. **Parties agree that City's final electronically posted online version of this solicitation contains the agreed upon specifications, scope of services, and terms and conditions of this contract, and shall control in the event of a conflict with any printed version signed and submitted by Vendor.**

007 - SIGNATURE PAGE

By submitting an offer, Offeror represents that:

(s)he is authorized to bind Offeror to fully comply with the terms and conditions of City's Request for Offer for the prices stated therein;

(s)he has read the entire document, including the final version issued by City, and agreed to the terms therein;

Offeror is in good standing with the Texas State Comptroller's Office; and

to the best of his/her knowledge, all information is true and correct.

Complete the following and sign on the signature line below. Failure to sign and submit this Signature Page will result in rejection of your offer.

Offeror Information:

Please Print or Type:

Vendor ID No.:	Supplier Number 10027925
Signer's Name:	Travis Walden
Name of Business:	Siddons-Martin Emergency Group
Street Address:	1362 E. Richey Rd
City, State, Zip Code:	Houston, TX 77073
Email Address:	travis.walden@siddons-martin.com
Telephone No.:	512 848 5847
Fax No.:	
City's Solicitation No.:	6100018592 SAFD WATER TANKER/PUMPER TRUCKS



Signature of Person Authorized to Sign Offer

008 - STANDARD DEFINITIONS

Whenever a term defined by the Uniform Commercial Code ("UCC"), as enacted by the State of Texas, is used in the Contract, the UCC definition shall control, unless otherwise defined in the Contract.

All-or-None Offer - an RFO in which City will award the entire contract to one offeror only.

Alternate Offer - two or more offers with substantive variations in the item or service offered from the same offeror in response to a solicitation.

Assignment - a transfer of claims, rights or interests in goods, services or property.

Bid Bond - security to ensure that Offeror (a) will not withdraw the offer within the period specified for acceptance, and (b) will furnish any required bonds and any necessary insurance within the time specified in the solicitation.

City - the City of San Antonio, a Texas home-rule municipal corporation.

Contractor - the offeror whose offer is accepted by City and is, therefore, the person, firm or entity providing goods or services to City under a contract.

Director - the Director of City's Finance Department, Purchasing Division, or Director's designee.

Line Item - a listing of items in an offer for which an offeror is expected to provide separate pricing.

Offer - a complete, signed response to an RFO that, if accepted, would bind Offeror to perform the resultant contract.

Offeror - a person, firm or entity that submits an offer in response to a solicitation. The offeror whose offer is accepted by City may also be referred to herein as Contractor, Vendor or Supplier.

Payment Bond - a particular form of security provided by the contractor to protect City against loss due to the contractor's failure to pay suppliers and subcontractors.

Performance Bond - a particular form of security provided by the contractor to protect City against loss due to the contractor's inability or unwillingness to complete the contract as agreed.

Performance Deposit - security provided by the contractor to protect City against loss due to the contractor's inability or unwillingness to complete the contract as agreed.

Pre-Submittal Conference - a meeting conducted by City, held in order to allow offerors to ask questions about the proposed contract and particularly, the contract specifications.

Purchase Order - a validly issued order placed by an authorized City department for the purchase of goods or services, written on City's standard purchase order form, and which is the vendor's authority to deliver to and invoice City for the goods or services specified in an RFO for the price stated in vendor's offer.

Specifications - a description of what City requires and what Offeror must offer; a description of the physical or functional characteristics of a product or material, or the nature of a service or construction item.

Subcontractor - a person, firm or entity providing goods or services to a vendor to be used in the performance of the vendor's obligations under the contract with City.

Supplier - the offeror whose offer is accepted by City and is, therefore, the person, firm or entity providing goods or services to City under a contract.

Vendor - the offeror whose offer is accepted by City and is, therefore, the person, firm or entity providing goods or services to City under a contract.

009 – ATTACHMENTS

ATTACHMENT A – PRICE SCHEDULE

ITEM	QUANTITY	DESCRIPTION
1	2	Fire Apparatus Water Tanker/Pumper Trucks (DXT Tankers)

YEAR and MODEL of CAB & CHASSIS:

Current year of production when manufactured - Freightliner M2-106

SPECIFIC MAKE & MODEL OF ENGINE OFFERED (INCLUDE SAE NET HP):

Detroit Diesel DD8 - 375 HP

ENGINE WARRANTY (Must meet minimum warranty requirements):

5 Year

TRANSMISSION WARRANTY (Must meet minimum warranty requirements):

5 Year

WARRANTY (Must meet minimum warranty requirements):

1 Year

WARRANTY SERVICE PROVIDER FACILITY NAME:

Siddons-Martin Emergency Group - Kirby

WARRANTY SERVICE PROVIDER FACILITY ADDRESS:

5511 Binz-Engleman

San Antonio, TX 78219

DELIVERY WILL BE MADE WITHIN 1215 CALENDER DAYS AFTER ISSUANCE OF PURCHASE ORDER.

PRODUCTION CUT-OFF DATE FOR YEAR MODEL OFFERED: January 31, 2025

INDICATE THE LAST DAY THAT THE CITY CAN PLACE ORDERS UNDER THIS CONTRACT WITHOUT MISSING THE PRODUCTION CUT OFF DATE: 01-31-2025.

BID PRICES SHALL REMAIN FIRM FOR ALL ORDERS PLACED PRIOR TO THIS CUT OFF DATE. IN THE EVENT THAT CITY DOES NOT AWARD A CONTRACT PRIOR TO PRODUCTION CUT OFF DATE, CAN BIDDER PROVIDE BID ITEMS, AT THE BID PRICE SUBMITTED, AFTER THE PRODUCTION CUT OFF DATE? (YES/NO) No

ITEM	QUANTITY	DESCRIPTION
2	1	Cooperative Fee
Item 1 --- Vehicle Price \$ _\$573,902 Each \$1,147,904 Total for 2		
PRICE EACH: \$ _Coop Fee \$1500		
TOTAL: \$ _\$1,149,404		

Prompt Payment Discount: \$1000 % 30 days. (If no discount is offered, Net 30 days)