



COUNTY of ROCKINGHAM

20 E. Gay Street
Harrisonburg, VA
22801

Invitation to Bid

INVITATION TO BID #17-0628-01 FIRE DEPARTMENT WATER TANKER TRUCK

This procurement is governed by the Virginia Public Procurement Act and all terms and conditions of the Act are hereby adopted and are made a part of this notice.

Contact Information:

Justin Moyers

Finance Department

20 E. Gay Street

Harrisonburg, VA 22802

(540) 574-6002

jmoyers@rockinghamcountyva.gov

Table of Contents

Bidding Terms 3

Purpose 3

Bidding Specifications 5

General Terms and Conditions 53

Bidder Information Form 61

PURPOSE

The purpose of this Invitation to Bid (ITB) is to request formal competitive sealed bids through the Invitation to Bid process to purchase a 2,000 gallon fire department tanker truck for the Rockingham County Fire and Rescue Department.

BIDDING TERMS

Bidder Has Read and Fully Understand the Bidding Terms: YES ____ NO ____

The information contained in this document will reference the minimum specifications for the purchase of one (1) or more tanker apparatus as detailed below. Proposals that are submitted shall reference only one (1) apparatus to avoid any confusion with number of items or equipment that may be included in the event that multiple units of this vehicle are purchased.

The following minimum specifications are intended to cover this particular brand new (never used) custom built pumper-tanker apparatus and the latest production design of this unit delivered to Rockingham County Fire Department.

Any bidder who does not follow the requirements of these bid specifications shall be considered non-responsive and shall be disqualified for further consideration.

The final preparations for this apparatus shall be constructed entirely within the Continental United States utilizing every American made material or product available at time of production to meet the specifications of the Rockingham County Fire Department.

Each bidder shall submit their information on the required "**BIDDER INFORMATION FORM**" found at the end of this document. Any bidder who does not complete the required information and include this form with their bid proposal shall be considered non-responsive and shall be disqualified for further consideration.

Offerors are required to submit the following items as a complete bid:

- 1. Return of the completed Bidder Information Form- Page 61**
- 2. One original copy of their proposal**
- 3. One set of CAD drawings with their bid proposal**
- 4. Signed bid specifications- Page 3-52**
- 5. List of Bidder Exceptions to Specifications**

Bids shall be submitted in a sealed envelope, clearly marked "ITB-#17-0628-01 Fire Department Water Tanker Truck" no later than 2:00p.m., local time, Friday, July 14, 2017 to:

**Rockingham County Finance Department
Attention: Justin Moyers
20 East Gay Street
Harrisonburg, VA 22802**

It is the responsibility of the offeror to ensure that their bid reaches the appropriate office prior to the date and time of closing.

Rockingham County reserves the right to reject, on arrival at destination or at delivery, any vehicle which does not conform with the specifications of this ITB. Equipment offered below the listed specifications will be considered unacceptable

Each subsequent section of the bid specifications shall contain a check box for each bidder to identify whether or not they comply 100% with the specification as it has been provided by the Rockingham County Fire Department.

Each bidder shall either check **“YES”** or **“NO”** on each section.

All sections that receive a **“YES”** checkmark shall follow the specification precisely as it has been provided in the bid specifications.

All sections that receive a **“NO”** checkmark must be accompanied by an explanation in the vendor provided exceptions page attached to the end of their proposal.

Failure to indicate **“YES”** or **“NO”** to any section and failure to fully explain any exception, no matter how minor, will result in immediate disqualification.

Sections of the specifications that are clearly marked as accepting **“NO EXCEPTIONS”** shall not be deviated from and will be cause for immediate rejection of the bid.

All bid proposals shall be valid for a period of no less than 60 calendar days from the bid opening date and shall not be withdrawn. The Rockingham County Fire Department reserves the right to reject any and all bids that do not satisfy these requirements and do not meet the specific needs of the department.

EXCEPTIONS TO SPECIFICATIONS

Bidder Complies: YES NO

If there are any exceptions or deviations to the original specifications, regardless of how minor they may be, they shall be explained in detail on a vendor supplied sheet attached at the end of the bid proposal.

In the event that there are exceptions noted, they shall only be acceptable if it is for a superior substitution to the original specification, but according to bidding requirements must be noted as an exception. This type of exception shall not be considered negative toward the bidder, but should be stated for later comparison of all bids. If no exceptions are noted, the original specifications shall be strictly adhered too at time of final inspection and delivery.

PROPOSAL FORMAT

Bidder Complies: YES NO

All proposals submitted for consideration shall be formatted in the **same layout and same order** as the bid specifications for ease of comparison.

Any bid proposal that is not presented in this exact order and format will be rejected and excluded for future consideration.

Bidding Specifications

GENERAL INFORMATION

Bidder Complies: YES ___ NO ___

Descriptions and specifications of the following apparatus including the equipment detailed or described herein are intended to outline the design, quality and integrity of this all American manufactured apparatus.

The following specifications are intended to cover only this particular newly constructed custom built firefighting apparatus and the latest production design of this unit delivered to the Rockingham County Fire Department.

The apparatus shall be constructed entirely within the Continental United States utilizing every American made material or product available at time of production.

The apparatus manufacturer shall detail in their proposal which location(s) that the fabrication and final preparations for this apparatus shall take place.

APPARATUS SERVICE CENTER

Bidder Complies: YES ___ NO ___

The apparatus manufacturer operates a full service maintenance center to include engine and mechanical repair, preventative maintenance, full capacity fabrication shop, full paint and body shop, fire pump maintenance and repair, electrical service and repair as well as a full service custom graphics shop.

There are multiple service centers across the United States that are authorized by the factory to perform service repairs.

In the event that your apparatus cannot be driven to a service center, the apparatus manufacturer and its affiliates shall operate fully capable mobile service vehicles so repairs can be made on site.

If there is a particular repair shop that the department prefers to use, the apparatus manufacturer shall work with any qualified maintenance facility to ensure that warranty repairs are made to the satisfaction of the department.

APPARATUS GENERAL WARRANTY

Bidder Complies: YES ___ NO ___

The finished product here labeled as a mobile water supply apparatus as it is specified in NFPA 1901 shall carry full product warranty as described below:

- Overall Apparatus (All Components) - 1 Year Bumper to Bumper Warranty
- Body and Sub-Structure - 10 Year Perforation Warranty
- Body Paint and Finish - 7 Year Warranty
- ROM Generation IV Roll Door Warranty - 7 Year Warranty

- ROM Compartment Light Warranty - 7 Year
- Polypropylene Water Tank - Lifetime Warranty
- Chassis - New International Factory Warranty (See Below)
- Darley PTO Fire Pump - 6 Year Warranty
- Whelen Electrical / Lights, Wiring - 5 Year Warranty
- Stainless Steel Plumbing - 10 Year Perforation Warranty
- Graphics - 1 Year Warranty

All warranties shall be provided by the respective manufacturer and shall be coordinated through the apparatus manufacturer.

All components shall be covered under by their warranty provided the issue was the result of faulty materials or workmanship from normal use. Items that are abused, misused, damaged and/or used in a saltwater environment shall not be covered by the warranty.

INTERNATIONAL WARRANTY

Bidder Complies: YES ___ NO ___

The International 7400 cab and chassis shall be supplied with a new factory warranty as detailed below:

- 2 Year Chassis Warranty - Provided by International Trucks
- 5 Year / 100,000 Mile Engine Warranty - Provided by Cummins
- 5 Year Transmission Warranty - 100% Parts and Labor - Provided by Allison

FAMA COMPLIANCE

Bidder Complies: YES ___ NO ___

The apparatus manufacturer shall be a current 2017 member of the Fire Apparatus Manufacturer's Association (FAMA). A copy of the certificate shall be included in the bid packet. **NO EXCEPTIONS**

NON-PROPRIETARY PARTS

Bidder Complies: YES ___ NO ___

The finished apparatus shall be manufactured with parts that are commonly used by the heavy-duty trucking industry in order to assist the department in the future with cost and availability of replacement parts.

COOPERATIVE PURCHASING

Bidder Complies: YES ___ NO ___

The apparatus manufacturer shall honor the pricing in this proposal for any other government based agency that wishes to purchase a replica of this apparatus through a cooperative purchasing agreement.

PRIME (SINGLE SOURCE) BODY BUILDER

Bidder Complies: YES ___ NO ___

The apparatus manufacturer shall be the single source prime builder of this extreme duty all aluminum fire apparatus quality body. **NO EXCEPTIONS**

All engineering, design, fabrication, paint and finishing shall take place at the apparatus manufacturer's main facility. **NO EXCEPTIONS**

Bodies that are mass produced from lower quality materials such as thin stamped utility style designs, bolted together designs or those that are manufactured by a third party for the apparatus manufacturer shall be considered sub-standard and shall not be acceptable for this project. **NO EXCEPTIONS**

The body shall be designed and manufactured entirely from formed and welded aluminum plate and aluminum extrusions to ensure a high quality design and finish that shall provide years of uninterrupted service. Bodies that incorporate steel as structural support or that utilizes steel in any way shall be considered sub-standard and shall not be acceptable for this project. **NO EXCPETIONS**

RE-MOUNTING

Bidder Complies: YES ___ NO ___

The body shall be designed, manufactured and installed on the chassis to allow for complete removal for future re-mounting onto another chassis.

CERTIFICATION OF NFPA 1901 COMPLIANCE

Bidder Complies: YES ___ NO ___

As per NFPA 1901, the purchaser shall assume the responsibility of determining, prior to the purchase of the apparatus, which will be responsible for ensuring that all aspects of NFPA 1901-2016 are met. The manufacturer shall be responsible for providing or performing only the items requested by the purchaser in the documents provided to the manufacturer by the purchaser.

Written certification shall be provided by the manufacturer stating that the delivered apparatus complies with the NFPA 1901-2016 Standard. If the purchaser has elected to provide, perform, outsource and/or contract with a third party, any item required by NFPA 1901-2016 (per the previous paragraph), the manufacturer shall provide, upon delivery, a "Statement of Exceptions" per Chapter 4 of NFPA 1901. This "Statement of Exceptions" shall include the following:

1. A separate specification of the section of the NFPA Standard for which the apparatus is lacking compliance.
2. A description of the particular aspect of the apparatus that is not compliant.
3. A description of the further changes or modifications to the delivered apparatus which must be completed to achieve full compliance.
4. An identification of the entity that will be responsible for making the necessary post-delivery changes or modifications to the apparatus to achieve full compliance with the applicable standard.

The responsibility shall rest with the purchaser to ensure that the apparatus not be placed into active emergency service until fully compliant with NFPA 1901.

APPARATUS DELIVERY

Bidder Complies: YES ___ NO ___

Estimated delivery time shall be approximately 230 calendar days assuming no delays receiving the chassis from International.

Customer shall take delivery of the finished apparatus at the factory following the final factory inspection visit. It is recommended that the finished apparatus be driven home under its own power to ensure a proper break-in period on the engine, transmission and driveline components.

At time of delivery, complete operation and maintenance manuals covering the apparatus will be provided as well as any DVD's for pump, chassis, tank, body, loose equipment, and operations/maintenance of shall 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.

DELIVERY PENALTY

Bidder Complies: YES ___ NO ___

In the event that the delivery extends past the deadline of 230 day, there shall be a penalty assessed at the rate of \$100 per working day.

DELIVERY TRAINING

Bidder Complies: YES ___ NO ___

During the factory delivery process, there shall be personnel on site to provide initial training in the proper operation and maintenance of the apparatus.

PRE-BUILD MEETING

Bidder Complies: YES ___ NO ___

There shall be a pre-build meeting held between factory personnel and representatives of the Rockingham County Fire Department.

This meeting shall take place prior to the start of construction and shall cover all details and phases of the build.

PERIODIC APPARATUS INSPECTIONS

Bidder Complies: YES ___ NO ___

At any time during the build process, representatives from the department are allowed to visit the factory during business hours to check-in on the progress of their new custom built apparatus.

A factory representative will be on site to give updates and let department members see their truck as it is being built.

PROGRESS PICTURES

Bidder Complies: YES ___ NO ___

Each week the website of the apparatus manufacturer shall be updated with "IN PROGRESS" pictures of all apparatus currently in production.

This allows any department members the opportunity to check-in on their new apparatus each week regardless of their location or work schedule.

FINAL INSPECTION VISIT

Bidder Complies: YES ___ NO ___

Prior to final delivery of the apparatus, representatives of the Rockingham County Fire Department shall meet with factory personnel to conduct a final inspection of the apparatus while it is still at the factory.

Following the final inspection visit, the finished apparatus shall be available for immediate delivery to the department.

TRAVEL EXPENSES

Bidder Complies: YES ___ NO ___

All travel expenses of the Rockingham County Fire and Rescue Department should be covered by the respective bidder. This includes travel for the periodic apparatus inspections and travel to pick up the apparatus and deliver it back to Rockingham County.

FUEL TANK AT DELIVERY

Bidder Complies: YES ___ NO ___

The fuel and DEF tank shall be full at time of delivery and acceptance at the factory.

MINIMUM INSURANCE REQUIREMENTS

Bidder Complies: YES ___ NO ___

Insurance shall be maintained by the apparatus manufacturer to meet the following minimum criteria and a copy of the proof shall be submitted to the department upon request.

COMMERCIAL GENERAL LIABILITY INSURANCE

During the performance of the contract and for three (3) years following acceptance of the product, the manufacturer shall keep in force at least the following minimum limits of commercial general liability insurance:

- Each Occurrence: \$1,000,000
- Products/Completed Operations Aggregate: \$2,000,000
- Personal and Advertising Injury: \$1,000,000
- General Aggregate: \$2,000,000

COMMERCIAL AUTOMOBILE LIABILITY INSURANCE

During the performance of the contract, the manufacturer shall keep in force at least the following minimum limits of commercial automobile liability insurance:

- Each Accident Combined Single Limit: \$1,000,000

UMBRELLA/EXCESS LIABILITY INSURANCE

During the performance of the contract and for three (3) years following acceptance of the product, the manufacturer shall keep in force at least the following minimum limits of umbrella liability insurance:

- Aggregate: \$1,000,000
- Each Occurrence: \$1,000,000

PERFORMANCE TESTS AND REQUIREMENTS

Bidder Complies: YES NO

A road test shall be conducted with the apparatus fully loaded and a continuous run of ten miles or more will be made

During this test, the apparatus engine shall show no loss of power or signs of overheating.

The transmission drive shaft or shafts and rear axles shall run quietly and be free from abnormal vibration or noise throughout the operating range of the apparatus.

The apparatus, when loaded, shall not have less than 25% or more than 55% of the weight on the front axle and not less than 45% or more than 75% on the rear axles.

The apparatus shall be capable of accelerating to 35 MPH from a starting position within 25 seconds on a level asphalt paved highway without exceeding the maximum governed RPM of the engine.

The apparatus must be capable of accelerating from a steady speed of 15 MPH to a true speed of 35 MPH within 30 seconds. This shall be accomplished without moving the gear selector.

A certificate shall be provided showing weights on front axle, rear axles and total weight for the completed apparatus at time of delivery.

A nameplate shall be affixed to the vehicle showing shall supply the final manufacturer's furnished certification of GVWR and GAWR on a nameplate affixed to the vehicle.

GENERAL CONSTRUCTION

Bidder Complies: YES NO

The apparatus shall be designed with due consideration to distribution of load between the front and rear axles, so that all specified equipment and a full complement of personnel will be carried without injury to the apparatus. Weight balance and distribution shall be in accordance with the recommendations of NFPA 1901.

The apparatus shall be designed so that the operator could perform all recommended daily maintenance checks easily without the need for hand tools.

Apparatus components that interfere with repair or removal of other major components must be attached with fasteners (cap, screws, nuts, etc.) so that the components can be removed and installed

with normal hand tools. These components must not be welded or otherwise permanently secured into place.

The GAWR and GVWR of the chassis shall be adequate to carry the fully equipped apparatus including unequipped personnel weight and a miscellaneous equipment allowance per NFPA criteria. It shall be the responsibility of the purchaser to provide the contractor with the weight of equipment to be carried if it is in excess of the allowance as set forth by NFPA.

The height of the fully loaded vehicle's center of gravity shall not exceed the chassis manufacturer's maximum limit.

The apparatus shall be so designed that the various parts are readily accessible for lubrication, inspection, adjustment and repair.

Where special tools manufactured or designed by the contractor and are required to provide routine service on any component of the apparatus built or supplied by the contractor, such tools shall be provided with the apparatus.

QUALITY

Bidder Complies: YES ___ NO ___

Workmanship and materials provided shall be of a quality unsurpassed for this apparatus.

This fire apparatus shall be designed and manufactured for ease of operation and the highest level of safety available.

CAD DRAWINGS

Bidder Complies: YES ___ NO ___

Drawings of this exact apparatus shall be included with the proposal and shall include the wheelbase, overall length, overall height, left view, right view, rear view, departure angles and measurements at multiple locations of the proposed apparatus.

The CAD images representing this apparatus are to give a basic design layout and can be modified at customer request at the pre-build meeting prior to the start of fabrication.

SUPPLIED INFORMATION

Bidder Complies: YES ___ NO ___

The apparatus manufacturer shall supply one (1) copy of apparatus manuals with all manufactured apparatus.

The manuals shall include, but not be limited to component warranties, user manuals and information for supplied products, apparatus engineering information including drawings and build prints, and whatever other pertinent information the apparatus manufacturer can supply to its customer regarding the said apparatus.

The apparatus manufacturer shall also supply a manufacturer's record of apparatus construction details, including the following information:

- **Owner name and address**

- Apparatus manufacturer, model, and serial number
- Chassis make, model, and serial number
- GAWR of front and rear axles
- Front and rear tire size
- Engine make, model, serial number, number of cylinders and rated horsepower
- Type of fuel and fuel tank capacity
- Electrical system voltage, alternator output in amps, battery make/model and capacity in CCA
- Paint numbers
- Company name and signature of responsible company representative
- Weight documents from a certified scale showing actual loading on the front axle, rear axle(s), and overall vehicle (with the water tank full (if applicable) but without personnel, equipment, and hose)
- Transmission make, model, and type

COMMERCIAL CAB AND CHASSIS

Bidder Complies: YES ____ NO ____

This apparatus shall be custom built on a 2018 International 7400 commercial cab and chassis with the following minimum specifications:

- 2-Door Cab and Chassis (Single Cab) - 2 Passenger Seating
- Fire Apparatus Prep Package
- NFPA Compliance Package
- 350 HP Cummins L9 (ISL-9) Turbo Diesel Engine
- Jacobs Engine Compression Brake
- RH Horizontal (Underbody) Exhaust
- Intake Ember Screens
- Allison 3000EVS 6-Speed Automatic Transmission - Push-Button Controls
- Transmission PTO Provisions and PTO Drive Gear - Pump and Roll Capable
- Transmission Auto Neutral Feature (NFPA)
- Stationary High Idle
- Cruise Control and Tilt Wheel
- Color: Harvester Red
- 16,000-lb GAWR - Front Axle
- 30,000-lb GAWR - Rear Axle
- 42,540-lb Total GVWR
- 5.25 Rear Axle Ratio

- HD Gray Seats - Air-Ride Bucket Driver – Stationary Passenger - High Back
- HD Black Vinyl Floor Covering
- Power Window Glass
- Power and Heated Chrome Side Mirrors
- Manual Convex Spot Mirrors
- NFPA Compliant Cab Grab Handles
- Red Seatbelts
- A/C - Heat - Defrost
- HD Air Brakes - 16,000-lb Front and 30,000-lb Rear Brake Package
- ABS with Electronic Stability Control Programming
- Front Tow Hooks
- Mud Flaps - Front and Rear
- Polished Stainless Steel Front Bumper
- Chrome Grill
- 50 Gallon Aluminum Fuel Tank
- 7 Gallon DEF Tank
- Polished Diamond Tread Aluminum Cab Step Covers Caps
- 102db Back-up Alarm
- Polished Aluminum Wheels - Outer Positions
- 12R22.5 Tires - HD Rating - Road Tread Front - Deep Lug Tread Rear
- Chrome Hub and Lug Nut Covers - Front and Rear
- Battery Master Switch
- Battery On Indicator Light
- 12 Volt Chassis Electrical System
- 240 Amp Alternator Charging System

CAB PAINT

Bidder Complies: YES NO

The cab shall have a paint scheme as follows:

- Primary Color: Harvester Red

EXTENDED FRONT BUMPER

Bidder Complies: YES NO

There shall be a 24” front bumper extension provided at the front of the apparatus cab.

There shall be a polished diamond tread aluminum gravel guard provided and installed in the area between the cab and the bumper extension.

BUMPER HOSE WELL

Bidder Complies: YES NO

There shall be a recessed hose storage well provided and installed at the apparatus front bumper.

The well shall be located between the chassis frame rails and shall have a capacity to hold 150’ of 1.75” hose and nozzle.

There shall be a black nylon webbing cover installed with seat belt style buckles.

There shall be a 2.5" discharge located in this area that shall be detailed in the pump specifications below.

GROVER 24" STUTTERTONE AIR HORNS

Bidder Complies: YES ___ NO ___

Two Grover model 1510 24" chrome plated emergency air horns shall be provided and mounted on the front fenders of the cab.

The horns shall be activated from the horn button located on the steering wheel and a push-button on the officer side of the dash.

IN-DASH CUSTOM SWITCH PANEL

Bidder Complies: YES ___ NO ___

The custom designed switch panel shall be located in the cab center dash section and shall have a custom layout specific to this apparatus and feature rocker-style switches.

A single Master Optical Warning Device switch shall be provided that will activate all Minimum Optical Warning Lighting through a single switch. All lighting controlled by this switch shall not be subject to load management.

Individual switches shall not be provided for any Minimum Optical Warning Lighting to insure total compliance to the warning lighting requirements defined in NFPA 1901.

Any warning lights that are installed on the apparatus that are not required to meet the Minimum Optical Warning Lighting shall be subjected to load management and shall have individual switches to activate/de-activate the warning light.

All switches shall be clearly labeled as to their function.

CUSTOM CENTER CONSOLE

Bidder Complies: YES ___ NO ___

There shall be a custom fabricated aluminum center console provided and installed in the front center of the apparatus cab.

The console shall contain the siren, additional switches, storage compartment, communications equipment and pump controls as applicable.

The console shall be designed and installed to provide ease of operation to the driver.

The console shall be finished with a black Zolatone coating.

SCBA BRACKET

Bidder Complies: YES ___ NO ___

There shall be one (1) load and lock style SCBA bracket provided and installed on the rear portion of the cab center console.

The bracket shall be installed and turned in such a manner to allow for removal from the officer side.

MASTER BATTERY DISCONNECT

Bidder Complies: YES ___ NO ___

A master battery disconnect switch shall be provided, mounted within easy reach of the driver when seated.

The switch shall be wired between the starter solenoid and the remainder of the electrical loads on the apparatus.

The batteries shall be connected directly to the starter solenoid.

The alternator shall be wired directly to the batteries through the ammeter shunt if one is provided, and not through the master load disconnect switch.

A green 'battery on' indicator light shall be provided in clear view of the driver. The light shall be mounted in a manner that will not impair the driver's vision or reflect onto the windshield.

BACKUP ALARM

Bidder Complies: YES ___ NO ___

One (1) backup alarm shall be provided and installed on the apparatus.

The 102db backup alarm shall automatically activate when the apparatus transmission is placed into reverse.

The backup alarm shall exceed all NFPA1901 and SAE J994 Type D requirements and testing.

FEDERAL "Q" SIREN - PEDISTAL MOUNT

Bidder Complies: YES ___ NO ___

There shall be a pedestal mount Federal Q2B siren provided and installed on top of the apparatus front bumper.

The siren shall be controlled by a foot switch located on the driver and passenger side located on the cab floor.

There shall be a switch located on the control head to operate the siren brake.

ELECTRONIC SIREN

Bidder Complies: YES ___ NO ___

A Whelen 295 full function electronic audible warning siren system shall be provided and installed in the finished apparatus.

The siren shall be mounted in the center section of the cab.

There shall be one (1) siren speakers provided and installed in the front bumper area that is capable of producing 100 watts of output.

WHEEL COVERS

Bidder Complies: YES ___ NO ___

There shall be polished stainless steel hub and lug nut covers provided and installed on the front and rear axles of the chassis at time of delivery.

PAINT CHASSIS FRAME ASSEMBLY

Bidder Complies: YES ___ NO ___

The chassis frame assembly shall be painted black by the chassis manufacturer. It shall remain the commercial grade finish as provided by International Trucks.

REAR MUD FLAPS

Bidder Complies: YES ___ NO ___

Two (one on each side) 24" X 24" mud flaps shall be installed directly behind the rear dual wheels.

These mud flaps shall meet or exceed DOT requirements for dual wheel trucks.

REAR TOW PLATES

Bidder Complies: YES ___ NO ___

There shall be a set of rear tow plates provided and installed on the finished apparatus.

The plates shall be constructed from heavy duty structural steel and shall have a minimum of 1.5" holes.

The plates shall terminate below the rear bumper and shall be rigidly attached to the chassis frame.

VEHICLE DATA RECORDER (VDR)

Bidder Complies: YES ___ NO ___

The apparatus shall be equipped with an on-board Vehicle Data Recorder (VDR).

The recorder shall be capable of recording the following data, in this order, at a minimum of once per second:

- Vehicle speed (MPH).
- Acceleration (from speedometer) (MPH/Sec)
- Deceleration (from speedometer) (MPH/Sec)
- Engine speed (RPM)
- Engine throttle position (% of throttle)
- ABS event (on/off)
- Seat occupied status (occupied yes/no by position)
- Seat belt status (buckled yes/no by position)

- Master optical warning device switch (on/off)
- Time (24 hour)

- Date (year/month/day)

The data shall be stored at the sampling rate in a 48 hour loop.

The system shall have sufficient memory to record 100 engine hours with of minute by minute summary data showing the data listed above.

When the memory capacity is reached, the system shall erase the oldest data first.

All data stored in the VDR shall be password protected, up loadable by the user to their computer and importable to into a data management software package that shall be available from the manufacturer.

The software shall be both "Windows" and "Apple" compatible.

The software shall produce the following formatted reports from the uploaded data:

- Daily log for the time the engine is running for a given date (minute by minute output of all values).

- Weekly summary (maximum values each hour for each day of the week).

- Monthly summary (maximum values each day for each day of the month)

SEATBELT WARNING SYSTEM

Bidder Complies: YES ____ NO ____

The apparatus shall be equipped with a seatbelt warning system.

The system shall consist of an audible warning device that can be heard at all seating positions that are designed to be occupied while the vehicle is in motion as well as a visual display visible to the driver showing each seating position.

The warning system shall be activated anytime the parking brake is released or the automatic transmission is not in park

The system shall display seating position lights as follows:

- Green (buckled/senses occupant)

- Red (buckled/no occupant)

- Red (unbuckled/senses occupant)

- Dark (unbuckled/no occupant)

VEHICLE ROLLOVER STABILITY

Bidder Complies: YES ____ NO ____

The apparatus chassis shall be equipped with an electronic stability control system and shall be certified to NFPA 1901 Rollover Stability requirements.

OCCUPIED SEATING POSITIONS

Bidder Complies: YES ___ NO ___

There shall be two (2) seating positions designated for use while the vehicle is in motion.

TIRE PRESSURE VISUAL INDICATOR

Bidder Complies: YES ___ NO ___

Valve stem mounted visual indicators shall be provided on each tire.

The indicators shall identify the following conditions:

ALL GREEN. - Tire is properly inflated.

HALF GREEN/HALF RED - Tire is approximately 10% under inflated

ALL RED - Tire is 20% or more under inflated.

ENGINE EXHAUST

Bidder Complies: YES ___ NO ___

The exhaust pipe from the engine shall extend under the right side of the cab and body and shall not be modified from the design configuration that was provided from the chassis manufacturer.

Shielding shall be provided between the apparatus body and the exhaust pipe if necessary to deflect heat away from the body.

The exhaust system shall be designed and installed by the chassis manufacturer to comply with EPA equipment requirements.

MAXIMUM TOP SPEED

Bidder Complies: YES ___ NO ___

The maximum top speed of this apparatus shall be determined using the following NFPA 1901 Chapter 4 criteria:

- Water tank and foam agent tank capacities on the fire apparatus exceed 1250 gallons and the GVWR of the vehicle is over 50,000 pounds
 - The maximum top speed of the apparatus shall not exceed 60 mph.

FLUID CAPACITY LABEL

Bidder Complies: YES ___ NO ___

A permanent plate shall be mounted in the driver's compartment specifying the quantity and type of the following fluids used in the apparatus (if applicable) for normal maintenance:

- | | |
|-------------------|---------------------------------|
| 1. Engine Oil | 6. Air Conditioning Refrigerant |
| 2. Engine Coolant | 7. Power Steering Fluid |

3. Transmission Fluid

8. Transfer Case Fluid

4. Pump Transmission Fluid

9. Front tire cold pressures

5. Drive Axle Fluid

10. Rear tire cold pressures

VEHICLE INFORMATION LABEL

Bidder Complies: YES ___ NO ___

There shall be a travel clearance warning label located in the chassis cab in easy view of the driver to include the following information:

- Overall travel clearance height in feet and inches.
- Overall travel clearance width in feet and inches.
- Manufacturers Vehicle Weight Certification – Front and Rear Axles

OCCUPANCY LABEL

Bidder Complies: YES ___ NO ___

A permanent plate or label stating the maximum number of personnel allowed to ride on the apparatus at any one time shall be provided and installed in clear view of the driver.

The label shall be visible from each seated position.

SEATED AND BELTED LABEL

Bidder Complies: YES ___ NO ___

Permanent plate or label shall be provided stating "**OCCUPANTS MUST BE SEATED AND BELTED WHEN APPARATUS IS IN MOTION**".

The label shall be visible from each seated position.

DO NOT RIDE LABEL

Bidder Complies: YES ___ NO ___

A permanent plate or label shall be attached to the appropriate areas of the apparatus stating that riding on the rear step or any exterior position on the apparatus is prohibited.

DO NOT WEAR HELMET LABEL

Bidder Complies: YES ___ NO ___

Permanent plate or label shall be provided stating "**DO NOT WEAR HELMET WHILE SEATED**".

The label shall be visible from each seated position.

STEPPING, STANDING AND WALKING SURFACES

Bidder Complies: YES ___ NO ___

All stepping, standing and walking surfaces on the apparatus body shall be constructed to meet NFPA 1901 anti-slip standards.

DARLEY LSP SERIES 1,000 GPM PUMP

Bidder Complies: YES ___ NO ___

The fire pump shall be manufactured by the W. S. Darley Company and shall comply with all applicable requirements of the latest edition of NFPA 1901 "Standard for Automotive Fire Apparatus" published by the National Fire Protection Association.

DARLEY PUMP WARRANTY

Bidder Complies: YES NO

The Darley pump shall have a 6 year warranty on defective materials and workmanship in the pump.

The first two years shall cover parts and labor.

The remaining four years shall cover parts only

PUMP PERFORMANCE – 1,000 U.S. GPM.

Bidder Complies: YES NO

The pump shall be a Darley LSP1000 single stage centrifugal fire rated pump with a rated capacity of 1,000 United States gallons per minute at draft through either of the master side suction connections. The pump shall deliver the percentage of rated discharge pressures as indicated below:

- 100 percent of rated capacity at 150 pounds net pressure
- 70 percent of rated capacity at 200 pounds net pressure
- 50 percent of rated capacity at 250 pounds net pressure

FIRE PUMP CERTIFICATION TEST

Bidder Complies: YES NO

Prior to delivery of the finished apparatus, the pump shall receive a full certification test while still at the factory.

A copy of the service test will be provided to the customer on delivery.

PTO PUMP CONSTRUCTION

Bidder Complies: YES NO

The pump shall be driven by a drive line from the chassis transmission through a PTO gear case.

The pump shall be free from objectionable pulsation and vibration under all normal operating conditions.

The engine shall provide sufficient horsepower and revolutions per minute to allow the pump to meet or exceed its rated performance.

The entire pump, both suction and discharge passages, shall be hydrostatically tested to a pressure of 500-PSI.

The pump body and related parts shall be of fine grain alloy cast iron with a minimum tensile strength of 30,000 PSI.

All moving parts in contact with water shall be of high quality bronze or stainless steel. Pumps utilizing castings made of lower tensile strength cast iron are not acceptable.

The pump shaft shall be rigidly supported by bearings for minimum deflection.

The bearings shall be heavy-duty, deep groove style bearings in the gearbox and they shall be splash lubricated.

The pump impeller shall be of hard, fine grain bronze with a mixed flow design; accurately machined, hand ground, and individually balanced.

The vanes of the impeller intake eyes shall be hand ground and polished to a sharp edge, and shall be of sufficient size and design to provide ample reserve capacity utilizing minimum horsepower.

The pump shaft shall be fabricated of heat-treated, electric furnace, corrosion resistant stainless steel, and shall be super finished under the shaft seal.

The pump shaft must be sealed with double lip oil seal to keep road dirt and water out of gearbox.

PUMP GEARBOX

Bidder Complies: YES ____ NO ____

The gear box shall be completely manufactured and tested at the pump manufacturer's facility.

The pump gearbox shall be of sufficient size to withstand up to 16,000 ft. lbs. of torque from the engine in both road and pump operating conditions.

The gearbox shall be designed of ample capacity for lubrication reserve and to maintain the proper operating temperature.

The gearbox shall withstand the full torque of the engine in pump operating conditions.

All gears (drive and pump) shall be of highest quality heat treated steel.

Bores shall be ground to size and the gear teeth shall be crown shaven, and hardened for smooth, quiet running, and a higher load carrying capability.

An accurately cut spur design shall be provided to eliminate all possible end thrust.

The pump gear ratio shall be selected by the apparatus manufacturer to give the maximum performance with the engine and transmission selected.

MECHANICAL SEAL

Bidder Complies: YES ____ NO ____

The pump shaft shall be equipped with a single mechanical type seal on the suction (inboard) side of the pump.

The mechanical seal shall be a minimum of two-inches in diameter and shall be spring loaded, maintenance free and self-adjusting.

The mechanical seal shall constructed of a carbon sealing ring, stainless steel coil spring, Viton rubber cup, and a tungsten carbide seat with Teflon backup seal.

SIDE-MOUNTED PUMP COMPARTMENT

Bidder Complies: YES ____ NO ____

A self-contained modular pump compartment, designed for the integral mounting of a PTO fire pump with side mounted pump operator's panel, shall be provided.

The modular design of the pump compartment shall allow the compartment to be fully independent of the apparatus body or cab.

A minimum .75-inch gap shall be provided between the pump compartment and the apparatus body creating a flexible joint between the pump compartment assembly and the apparatus body.

The modular design of the pump compartment shall allow the entire pump system, including the pump itself, to be removed from the apparatus in a one-piece, modular section.

PUMP COMPARTMENT ACCESS DOORS

Bidder Complies: YES ___ NO ___

A brushed stainless steel hinged access door shall be provided on both sides of the pump compartment.

The doors shall have an open stop device and push button or turn type latch.

The doors shall be of an adequate size to allow for access to the pump compartment for daily checks or routine maintenance.

SIDE MOUNT PUMP PANEL CONTROLS

Bidder Complies: YES ___ NO ___

All primary controls and instruments shall be located on the left side of the apparatus at the main pump operator panel.

SIDE MOUNT PUMP PANEL LIGHTS - L.E.D.

Bidder Complies: YES ___ NO ___

The left and right side pump panel shall be illuminated using a L.E.D. light assembly.

The light shall be constructed of an unbreakable type clear poly material housed behind a light shield provided across the top of the panel.

PUMP COMPARTMENT LIGHTS

Bidder Complies: YES ___ NO ___

There shall be a LED pump compartment light provided and installed inside the pump compartment area.

VALVE CONTROL HANDLES

Bidder Complies: YES ___ NO ___

For valve actuation, the apparatus pump panel shall be equipped with side mount valve controls.

The ergonomically designed handles shall be chrome plated with recessed labels for color-coding and verbiage.

The control rod, double laminated locking clips, and rod housing shall provide a true positive lock that will eliminate valve drift.

Teflon impregnated bushings in both ends of rod housing shall minimize rod deflection, never need lubrication, and ensure consistent long term operation.

The control assembly shall include a decorative chrome plated zinc panel mounting bezel.

In the event that push-pull type controls cannot be utilized due to plumbing conflicts, controls shall be provided in the form of a swift handle, swing handle, hand wheel, electric or pneumatic actuated valve assembly.

IDENTIFICATION LABELS

Bidder Complies: YES ___ NO ___

There shall be color coded identification labels installed on the pump panel to identify the various apparatus pump components.

These labels shall be designed and manufactured to withstand the specified apparatus service environment.

The verbiage label bezel assemblies shall include a chrome plated panel mount bezel with durable easy to read UV resistant polycarbonate inserts featuring the specified verbiage and color coding.

The UV resistant polycarbonate verbiage and color inserts shall be sub-surface screen printed to eliminate the possibility of wear and protect the inks from fading.

Both the insert labels and bezel shall be backed with 3M permanent adhesive (200MP), which meets UL969 and NFPA standards.

STAINLESS STEEL PLUMBING

Bidder Complies: YES ___ NO ___

All piping for suction and discharges shall be stainless steel pipe with stainless steel and brass pipe fittings as needed.

High pressure flexible reinforced plumbing may be used in some areas to minimize friction loss and accommodate plumbing configurations.

All piping shall be properly supported and braced to prevent unwanted movement.

STAINLESS STEEL PLUMBING WARRANTY

Bidder Complies: YES ___ NO ___

The stainless steel plumbing shall be warranted to be free from corrosion perforation for a period of 10 years following the delivery of the apparatus.

VALVE ASSEMBLIES - ALL AKRON VALVES

Bidder Complies: YES ___ NO ___

All valve assemblies on the apparatus shall be Akron Brass quarter-turn swing style fire service valves constructed of brass and/or bronze for durability and extended time in service.

VALVE CONTROL LINKAGES

Bidder Complies: YES ___ NO ___

All manual valve controls requiring control rod linkages shall be constructed with heavy duty ball type swivel joints and clevises for smooth and precision valve operation.

MASTER DISCHARGE PRESSURE GAUGE

Bidder Complies: YES NO

A fire apparatus quality master pressure gauge shall be provided to indicate the main pump discharge pressure.

The gauge shall read from 30" hg vacuum to 400 psi and shall be accurate within +/- 1%.

The gauge shall be glycerin filled (-40F to +150F), read up to 400 psi, be accurate within +/- 1% and have a high impact resistant clear acrylic lens.

The gauges shall be equipped with freeze proof isolator protection.

MASTER PUMP INTAKE PRESSURE GAUGE

Bidder Complies: YES NO

A fire apparatus quality master pressure gauge shall be provided to indicate the pump intake pressure.

The gauge shall read from 30" hg vacuum to 400 psi and shall be accurate within +/- 1%. The gauge shall be glycerin filled (-40F to +150F), read up to 400 psi, be accurate within +/- 1% and have a high impact resistant clear acrylic lens.

The gauges shall be equipped with freeze proof isolator protection.

6" MASTER INTAKE/DISCHARGE GAUGES

Bidder Complies: YES NO

The master intake/discharge gauges shall have a minimum 6" diameter dial.

STAINLESS STEEL MASTER GAUGE BEZELS

Bidder Complies: YES NO

The master intake and discharge gauges shall have bright finish stainless steel bezels.

MASTER PRESSURE GAUGE - WHITE FACE

Bidder Complies: YES NO

The intake/discharge pressure gauge dials shall be white with black markings.

The needle shall match the color of the markings.

MASTER INTAKE/DISCHARGE GAUGE LABELING

Bidder Complies: YES NO

The master intake/discharge gauges shall be clearly labeled as to their functions.

MASTER INTAKE/DISCHARGE GAUGE WARRANTY

Bidder Complies: YES NO

The master intake/discharge pressure gauges shall have a lifetime non-yellowing and freeze warranty. The gauges shall have warranty of 3 years to cover parts for defects in materials and workmanship, including fluid leakage.

DISCHARGE PRESSURE GAUGES

Bidder Complies: YES ___ NO ___

Unless otherwise specified, each 1.5" or larger discharge shall be equipped with a fire apparatus quality pressure gauge.

The gauges shall be glycerin filled (-40F to +150F), read from 0 - 400 psi, be accurate within +/- 1% and have a high impact resistant clear acrylic lens.

The gauges shall be equipped with freeze proof isolator protection.

2" DIAMETER DISCHARGE PRESSURE GAUGES

Bidder Complies: YES ___ NO ___

The individual discharge pressure gauges shall have a minimum 2" diameter dial.

STAINLESS STEEL GAUGE BEZELS

Bidder Complies: YES ___ NO ___

The discharge pressure gauges shall have bright finish stainless steel bezels.

DISCHARGE PRESSURE GAUGE DIALS - WHITE FACE

Bidder Complies: YES ___ NO ___

The discharge pressure gauge dials shall be white with black markings.

The needle shall match the color of the markings.

GAUGES/CONTROL HANDLE ALIGNMENT

Bidder Complies: YES ___ NO ___

The pressure gauge shall be as close as possible to being directly in line with the discharge control handle for the discharge that they provide pressure readout for.

PRESSURE GAUGE WARRANTY

Bidder Complies: YES ___ NO ___

The discharge pressure gauges shall have a lifetime non-yellowing and freeze warranty.

The gauge shall have a warranty for 3 years to cover parts for defects in materials and workmanship including fluid leakage.

PRESSURE/VACUUM TEST PLUGS

Bidder Complies: YES ___ NO ___

Underwriter's (UL) test plug adapters shall be provided for connection of pump test gauges.

WARNING - PUMP OPERATOR

Bidder Complies: YES ___ NO ___

A warning plate shall be installed on the pump operator's panel that states the following:

- WARNING: Death or serious injury might occur if proper operating procedures are not followed. The pump operator as well as individuals connecting supply or discharge hoses to the apparatus must be familiar with water hydraulics hazards and component limitations.

PUMP PANEL ID PLATE

Bidder Complies: YES ____ NO ____

An identification plate, prepared by the fire pump manufacturer, shall be installed on the pump operator control panel to identify the fire pump serial number, model number, and performance.

FRC "PUMP BOSS" THROTTLE GOVERNOR SYSTEM

Bidder Complies: YES ____ NO ____

There shall be a Fire Research Corporation (FRC) Pump Boss electronic throttle governor with monitoring display kit installed.

The kit shall include the control module, pressure sensor(s), and cables.

The following continuous displays shall be provided:

- CHECK ENGINE and STOP ENGINE warning lights
- Engine RPM
- Engine OIL PRESSURE
- Engine TEMPERATURE
- BATTERY VOLTAGE
- PSI / RPM setting; shown on a dot matrix message display
- PSI and RPM mode LEDs
- THROTTLE READY LED

A dot-matrix message display shall show diagnostic and warning messages as they occur.

It shall show monitored apparatus information, stored data, and program options when selected by the operator.

The program shall store the accumulated operating hours for the pump and engine, previous incident hours, and current incident hours in a non-volatile memory.

Stored elapsed hours shall be displayed at the push of a button.

The governor shall operate in two control modes, pressure and RPM.

No discharge pressure or engine RPM variation shall occur when switching between modes. Pressure or RPM settings shall be adjusted by using the single hand wheel control.

A throttle ready LED shall light when the interlock signal is recognized.

The governor shall start in pressure mode and set the engine RPM to idle.

In pressure mode the governor shall automatically regulate the discharge pressure at the level set by the operator.

In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase.

Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle.

INTAKE RELIEF VALVE

Bidder Complies: YES ___ NO ___

An intake relief/dump valve shall be provided on the intake side of the pump to relieve excess incoming pressure.

The system shall be designed to self-restore to a non-relieving position when excessive pressure is no longer present.

The pressure adjustment range shall be from 50 psi to 200 psi.

The relief system shall be adjustable with a common type box end wrench and shall be preset by the apparatus manufacturer at a 125-PSI position.

The surplus water shall discharge to the atmosphere at a location away from the pump operator's position.

PUMP SHIFT MECHANISM - ELECTRIC

Bidder Complies: YES ___ NO ___

The fire pump shall be shifted from road-to-pump by means of a cab mounted electronic control switch.

A green indicator light shall be provided in the driving compartment and shall be energized when the pump shift has been completed.

This light shall be labeled: "**PUMP ENGAGED**"

When the apparatus is equipped with an automatic transmission, a green indicator light be provided in the driver compartment and at the pump operators position and shall be energized when both the pump shift has been completed and the chassis transmission is in pump gear.

This light shall be labeled: "**OK TO PUMP**"

The light on the pump panel shall be positioned adjacent to, and preferably above, the throttle control mechanism.

This light shall be labeled: "**DO NOT OPEN THROTTLE UNLESS LIGHT IS ON**"

TRIDENT PUMP PRIMING SYSTEM

Bidder Complies: YES ___ NO ___

The apparatus pump shall be provided with a Trident air powered priming system. The system shall operate from the chassis air supply and shall not require the high electrical draw of electrically operated systems.

The Air Prime system shall be operated from the chassis air supply system and shall conform to the requirements outlined in NFPA 1901.

MANIFOLD DRAIN VALVE

Bidder Complies: YES ___ NO ___

The pump shall have a master manifold drain valve assembly consisting of a stainless steel plunger in a bronze body with multiple ports.

The control for the valve shall be on the left side along the bottom of the pump panel.

BLEEDER/DRAIN VALVES

Bidder Complies: YES ___ NO ___

A 3/4" quarter turn lift style bleeder/drain valve shall be provided for each discharge and auxiliary intake.

A flexible hose shall be connected to the valve that will direct water below the apparatus and away from the immediate pump operator's location.

1.5" TANK REFILL/RECIRCULATION DISCHARGE

Bidder Complies: YES ___ NO ___

A 1.5" tank refill and pump recirculation line shall be provided from the discharge side of the pump into the tank.

The control for the discharge shall be on the pump operator's panel.

The discharge shall be attached to the tank using flexible hose.

The valve shall be manually controlled from the pump operator's position.

3.0" TANK TO PUMP

Bidder Complies: YES ___ NO ___

A 3.0" tank to pump line shall be provided between the tank and the pump.

The valve shall be manually actuated with either a push/pull style control or an electric actuated air control and shall be controlled from the main pump operator's panel.

An integral built in check assembly shall be provided on the pump. The check valve shall prevent unintentional back filling of the tank through the tank to pump line.

Connection from the valve to the tank shall be made by using a non-collapsible flexible rubber hose.

6.0" SIDE MASTER INTAKE

Bidder Complies: YES ___ NO ___

A 6.0" master intake shall be provided on each side of the apparatus.

The intake shall have a removable screen constructed of a material that will provide cathodic protection and prevent the entry of large objects into the pump.

MASTER INTAKE CAPS

Bidder Complies: YES ___ NO ___

A 6.0" female NST long handle chrome cap shall be provided on each side master intake.

2.5" LEFT SIDE AUXILIARY INTAKE

Bidder Complies: YES ___ NO ___

One (1) 2.5" auxiliary intake shall be provided on the left side of the pump compartment.

A suction valve shall be utilized on the left side 2.5" intake and shall be located within the pump compartment.

A 2.5" chrome plated female National Standard Thread swivel connection with screen shall be provided on the left side 2.5" intake with chrome plated male NST intake plug and chrome plated chain.

LEFT 2.5" DISCHARGES - AKRON VALVES

Bidder Complies: YES ___ NO ___

Two (2) 2.5" discharges shall be provided on the left side of the apparatus pump panel.

One (1) discharge valve shall be utilized on each of the left side 2.5" discharges and shall be manually controlled from the pump operator's position.

The left side 2.5" discharges shall have a chrome discharge elbow.

A 2.5" chrome plated NST discharge cap shall be provided on each of the left side 2.5" discharges with a chrome plated chain.

RIGHT 2.5" DISCHARGE - AKRON VALVE

Bidder Complies: YES ___ NO ___

One (1) 2.5" discharge shall be provided on the right side of the apparatus.

One (1) discharge valve shall be utilized on the right side 2.5" discharge and shall be manually controlled from the pump operator's position.

The right side 2.5" discharge shall be equipped with a chrome discharge elbow.

A 2.5" chrome plated NST vented discharge cap shall be provided on the right side 2.5" discharge with a chrome plated chain.

REAR 2.5" DISCHARGES - AKRON VALVES

Bidder Complies: YES ___ NO ___

Two (2) 2.5" discharges shall be provided through the tank on the rear of the apparatus.

One (1) discharge valve shall be utilized on each the rear 2.5" discharges and shall be manually controlled from the pump operator's position.

The rear 2.5" discharges shall be equipped with a chrome discharge elbow.

A 2.5" chrome plated NST vented discharge cap shall be provided on the rear 2.5" discharges with a chrome plated chain.

1.5" CROSSLAY PRECONNECTS - AKRON VALVES

Bidder Complies: YES ___ NO ___

Two (2) 1.5" pre-connected cross lays shall be provided and located above the side mount pump panel.

The cross lay compartment shall be constructed of 5052 smooth aluminum sheet material with a satin finish applied after fabrication.

Each cross lay shall be piped using flexible high pressure hose incorporating a 2.0" ball valve with controls located on the main pump operator's panel.

The discharges shall both terminate with 1.5" NSTM connections and exit the pump module on the passenger side below the crosslay beds with straight fittings.

Each crosslay bed shall have the capacity to hold 200 feet of 1 3/4" fire hose and nozzle.

DEADLAY STORAGE TRAY

Bidder Complies: YES ___ NO ___

There shall be a deadlay hose storage tray located on top of the pump compartment immediately behind the crosslay compartments.

The area shall be constructed of aluminum and shall include side walls and an open top.

TOP CROSSLAY COVER

Bidder Complies: YES ___ NO ___

There shall be a top crosslay cover constructed from polished diamond tread aluminum.

The cover shall be hinged at the front of the pump module.

SIDE CROSSLAY COVERS

Bidder Complies: YES ___ NO ___

The apparatus shall be equipped with side crosslay covers constructed from black nylon webbing.

The covers shall be permanently attached below the crosslay discharges and shall have seat belt style buckles at the top of the crosslay compartment.

There shall be a tether strap attached to the buckles to allow removal of the side covers from the ground.

FRONT BUMPER DISCHARGE - AKRON VALVE

Bidder Complies: YES ___ NO ___

There shall be one (1) 2.5" discharge located at the apparatus extended front bumper.

The valve for the discharge shall be controlled at the pump operator position.

The discharge shall terminate on top of the front bumper with a swivel type chrome connection.

BOOSTER REEL DISCHARGE

Bidder Complies: YES ___ NO ___

One (1) 1.0" discharge shall be provided at the rear of the apparatus.

One (1) discharge valve shall be utilized on the booster reel discharge and shall be controlled from the pump operator's position.

BOOSTER REEL

Bidder Complies: YES ___ NO ___

There shall be one (1) Hannay booster hose reel provided and recessed behind the rear body wall below the rear dump valve.

The control for the booster reel shall be at the main pump operator's panel.

The hose reel shall be equipped with 100' of red booster hose.

GROUND SPRAYERS

Bidder Complies: YES ___ NO ___

There shall be two (2) 1.0" ground sprayers located on each side of the apparatus at the extended front bumper.

The ground sprayers shall be operated from the cab with two (2) separate switches to control electric valves for left and right operation.

The ground sprayers shall incorporate two (2) 1.0" brass fog style nozzles that are manually adjustable while in the field.

PUMP COMPARTMENT CONSTRUCTION

Bidder Complies: YES ___ NO ___

The framework of the pump compartment shall be constructed of welded tubular aluminum extrusions with a satin finish that shall not require any finish painting.

The frame shall be of an integrated design to tie together all components of the pump compartment.

PUMP COMPARTMENT RUNNING BOARDS

Bidder Complies: YES ___ NO ___

The pump compartment running boards shall be constructed of slip resistant polished diamond tread aluminum.

BRUSHED STAINLESS STEEL PUMP PANELS

Bidder Complies: YES ___ NO ___

The left and right side pump panels shall be constructed of 14 gauge 304 2B marine grade brushed stainless steel with a #4 brushed and polished finish.

The upper door panels shall be held into place with a stainless steel hinge with two chrome or stainless steel latches on the top to allow for easy opening and shall be constructed of the same 304 2B marine grade stainless steel.

FOAM SYSTEM

Bidder Complies: YES ___ NO ___

There shall be a Foam Pro 1600 series class “A” foam system provided and installed on the finished apparatus.

There shall be a foam discharge manifold constructed to provide foam to the following discharges:

- Crosslays
- Booster Reel
- Front Bumper Discharge

The system shall include the controller, manifold, metering device, injector, tank sensor and installation.

The controls for the foam system shall be located at the pump operator’s position.

IC WATER LEVEL GAUGE

Bidder Complies: YES ___ NO ___

There shall be an In-Control SL series LED water level gauge provided and installed on the pump operator’s panel.

The gauge shall feature a highly visible wide view display consisting of 14 LED lights to show the exact level of the booster tank.

The gauge shall provide a flashing warning when tank volume drops below 25% and down chasing lights when tank is nearly or completely empty.

The gauge shall implement a self-calibrating pressure sensor system to indicate the tank volume and a probe type system shall not be used.

IC FOAM LEVEL GAUGE

Bidder Complies: YES ___ NO ___

There shall be an In-Control SL series LED foam level gauge provided and installed on the pump operator’s panel.

The gauge shall feature a highly visible wide view display consisting of 14 LED lights to show the exact level of the booster tank.

The gauge shall provide a flashing warning when tank volume drops below 25% and down chasing lights when tank is nearly or completely empty.

The gauge shall implement a self-calibrating pressure sensor system to indicate the tank volume and a probe type system shall not be used.

BOOSTER TANK - 2,000 GALLON TANK

Bidder Complies: YES ___ NO ___

The booster tank shall have a capacity of 2,000 US gallons of water and shall be constructed to meet NFPA 1901 recommendation.

The tank shall be designed and fabricated to meet the exact specifications of this apparatus and shall be certified for the required capacity, hydro-tested and/or electronically tested, and will include a limited lifetime warranty.

The tank shall be constructed of virgin material that is a stress-relieved, UV stabilized, high-impact copolymer polypropylene that is black in color.

Material thickness, joint design, welding processes, baffles, and support design shall be determined by APR engineering based on DVS and/or AWS standards and shall be designed to meeting and/or exceeding NFPA 1901 standards as well as proprietary standards developed by APR.

The tank shall be equipped with a combination pipe vent/overflow and manual fill tower with lid. The tower shall be located on the front portion of the tank and shall have a removable copolymer screen.

The tank covers shall incorporate a minimum of (2) lifting lugs consisting of 2" copolymer dowels. The lifting lugs are intended only for use when the tank is empty. The dowels shall be drilled and tapped to accommodate lifting eyes with a minimum safety factor of 3 to 1. The lifting dowels shall be welded to the internal partitions and extend through the covers to assist in minimizing cover flex during normal operation.

Unless otherwise specified there shall be one standard sump per tank. The tank shall have a suction fitting of the internal draw type and will incorporate a dip tube (when required), and an anti-swirl plate positioned to minimize the formation of vortices. The sump shall have a drain on the bottom if applicable.

Direct fill and tank refill fittings shall be rated at 150 PSI and are not to be used as steps or supports of any type.

The tank baffling system shall be designed to allow for customer specified flow rates and prevention of severe liquid load shifting during transport. All baffles are designed to meet and/or exceed NFPA 1901 standards.

Foam cells (if applicable) shall be fabricated according to customer specifications for capacity, location and fitting requirements. Foam cells shall include a manual fill tower hinged lid with gasket, closure latch, pressure/vacuum valve and removable screen. Information on the foam cell shall be detailed in other sections of the proposal if applicable.

Additional tank equipment (if applicable) shall include storage tunnels, storage compartments, hose trays, hose beds, hose reel mounting platforms, ladder mounting platforms and miscellaneous housings that shall all be built to meet the exact specifications of this apparatus. Information on additional tank equipment shall be detailed in other sections of the proposal if applicable.

FOAM CELL

Bidder Complies: YES NO

There shall be an integrated foam cell contained in the apparatus booster tank with a capacity to hold 20 US gallons.

The foam cell shall be located at the front of the booster tank and shall be constructed in the same manner as the booster tank.

TANK FINISH - PAINTED

Bidder Complies: YES ___ NO ___

The wet-side booster tank shall receive a high gloss coating of finish paint to match the primary job color.

TANK ENGINEERING

Bidder Complies: YES ___ NO ___

There shall be a final approval drawing from the tank engineer prior to construction.

LIFETIME TANK WARRANTY

Bidder Complies: YES ___ NO ___

The tank shall carry a lifetime warranty against defect for as long as you own the apparatus. The warranty is offered by the tank manufacturer.

NEWTON 10" SWIVEL DUMP VALVE - ELECTRIC

Bidder Complies: YES ___ NO ___

A Newton 10" rear swivel dump valve shall be provided on the rear of the apparatus.

The valve shall have an electric controller located on top of the valve with a dump valve switch located on each side at the rear of the apparatus body.

There shall be a manual 36" telescoping extension chute included with the dump valve assembly.

The dump valve assembly shall be painted red to match the primary job color.

2.5" REAR TANK FILL - FIREMAN'S FRIEND

Bidder Complies: YES ___ NO ___

One (1) 2.5" direct tank fill shall be provided on the rear of the apparatus.

The fill point shall incorporate a Fireman's Friend fill valve.

The fill point shall be piped using 2.5" stainless steel pipe and shall terminate on the exterior of the apparatus with a 2.5" FNST swivel connection with a 30 degree downward slope with an internal screen, plug and chain.

TANKER BODY GENERAL DIMENSIONS

Bidder Complies: YES ___ NO ___

The entire assembled body shall have an overall length of 13 feet and 6 inches from the front of the body to the rear of the step bumper.

The entire assembled body shall have an overall width of no more than 8 feet and 6 inches to include lighting options and trim.

The entire assembled body shall have an overall height of no more than 10 feet from the ground to the top of the finished body.

EXTREME DUTY TANKER BODY CONSTRUCTION

Bidder Complies: YES ____ NO ____

The apparatus body shall be custom built utilizing a design and techniques that incorporates the sub-frame, compartments and outer body shell into one solid, integrated structure.

This method of construction shall be utilized as it is a far superior design for overall strength, durability and longevity when compared to designs utilizing bolted modular construction methods.

The apparatus body shall be constructed of 3" x 3" x .25" 6061 extruded aluminum tubing, 3/16" 5052 smooth aluminum plate as well as .125 and .187" polished diamond tread aluminum. **NO EXCEPTIONS**

The sheet metal shall be formed and welded to produce smooth symmetrically rounded corners and edges.

The polished diamond tread aluminum shall be embossed to create a non-slip surface on all walking and standing surfaces.

The body shall be designed and manufactured with tubing and channel reinforcement as necessary for rigidity. Angle shall not be used in any area for reinforcement or structural integrity. **NO EXCEPTIONS**

All body parts and attachments shall be fastened with rust resistant fasteners to preclude loosening of bolts and screws and/or the cracking of welded joints.

The body shall be reinforced as necessary where hose reels, hose troughs or ladder brackets are attached.

The body shall be an all welded structure with some components bolted in place. All components shall be constructed to allow the removal of any non-body component for service and/or repair.

The body and components thereof shall be bolted to the frame of the chassis with coated grade 8 automotive grade u-bolts.

There shall be a 1" layer of rubber to provide separation between the chassis frame and body.

All welds shall be cleaned of any weld residue prior to coating or when presenting a natural finish in order to present a clean appearance on all surfaces.

The front of the body shall be covered on the sides with .125" polished diamond tread aluminum to prevent painted areas from becoming damaged by road debris.

All seams shall be sealed with silicon to prevent seepage of moisture into the covered area.

EXTREME DUTY SUB-FRAME

Bidder Complies: YES ____ NO ____

The fully integrated body and substructure of the *all* aluminum body shall assure endurance and strength.

The aluminum apparatus body shall be supported by means of an aluminum support system incorporating stanchion brackets.

The support system shall consist of individual assemblies fastened together utilizing precision welding to insure sturdiness with proper dimensions and minimal distortion.

The Sub-Frame shall be constructed of 3"x3"x.25" square wall crush resistant 6061 extruded aluminum tubing running parallel to the chassis frame rails and underneath the full length of the rear.

The Sub-Frame shall be fully welded on a minimum of 15" centers for increased structural integrity.

The Sub-Frame shall be bolted to the Chassis frame rails with grade 8 5/8" U-Bolts (incorporating shear plates as necessary) and the entire body shall be modular and allow removal from the chassis without cutting in any way.

BODY FINISH - PAINTED

Bidder Complies: YES NO

The complete outer surface of the body shall be constructed of smooth aluminum plate that shall allow for the proper amount of flexion without the possibility of forming cracks. The exterior surface shall receive a high gloss finish coating of high grade automotive quality paint to match the primary color of the cab and chassis.

The inner surfaces (including compartments) of the body shall be constructed of 3/16" thick smooth aluminum plate to allow for the proper amount of flexion without the possibility of forming cracks. The interior surface of the compartment shall receive a finish coating of light gray Zolatone to resist wear marks.

SUB-FRAME AND TANK CRADLE

Bidder Complies: YES NO

The tank cradle substructure shall be constructed to meet the exact specifications and dimensions provided by the tank manufacturer.

The substructure shall be fastened to the chassis rails so that it may be easily removed from the chassis for repair, replacement or mounting to a new chassis.

The substructure shall be designed to provide integral support of the apparatus body, rear step, and the tank mounting cradle system.

No holes shall be drilled into the top or bottom flange of the chassis frame rails.

The substructure shall be designed to allow for a 20" side running board and rear step height when the apparatus is on level ground.

All fasteners used to secure the substructure to the chassis frame rails shall be grade 8 hardened steel with locking type nuts.

The Sub-Frame shall be bolted to the chassis frame rails with grade 8, 5/8" U-Bolts incorporating shear plates and rubber (anti-vibration) isolation pads.

EXTERIOR HARDWARE

Bidder Complies: YES ____ NO ____

All exterior screws, nut and bolts used to secure panels or diamond tread shall be stainless steel.

HOSE BED - 12"

Bidder Complies: YES ____ NO ____

There shall be a hose bed area located on top of the polypropylene booster tank.

The hose bed floor shall be an integrated design that utilized the top of the apparatus tank as the hose bed floor.

The top of the tank shall be double layered with a grooved texture to simulate decking.

The hose bed shall be the full width and length of the apparatus tank and shall extend approximately 12" in height on the sides.

The hose bed shall be free from all projections, which may interfere with the unloading of hose.

HOSE BED FRONT DUNNAGE AREA

Bidder Complies: YES ____ NO ____

There shall be a dunnage area provided at the front of the apparatus hose bed for storage of miscellaneous items.

The dunnage area shall be the following size:

- Full Width x Full Depth x 24" From Front of Hose Bed

There shall be a permanent aluminum plate to divide this area from the remainder of the apparatus hose bed and the fill tower shall be located inside this area.

The hose bed dunnage area shall have an open top design.

HOSE BED DIVIDERS

Bidder Complies: YES ____ NO ____

There shall be two (2) adjustable hose bed dividers provided and installed in the rear portion of the apparatus hose bed.

The dividers shall be constructed from smooth aluminum plate with a satin (DA) aluminum finish applied after fabrication to provide an even appearance that resists wear marks.

UPPER HOSE BED COVER

Bidder Complies: YES ____ NO ____

The apparatus shall be equipped with an upper hose bed cover constructed from polished diamond tread aluminum.

The cover shall be hinged at the front of the hose bed to open toward the front of the tank.

The cover shall be held open with pneumatic shocks and shall be held in the closed position with a latch assembly on each rear corner.

REAR HOSE BED COVER

Bidder Complies: YES NO

The apparatus shall be equipped with a rear hose bed cover constructed from black nylon webbing.

The cover shall be permanently attached below the rear discharges and shall have seat belt style buckles at the top of the body.

There shall be a tether strap attached to the buckles to allow removal of the rear cover from the ground.

FOLDING ACCESS STEPS

Bidder Complies: YES NO

There shall be a total of six (6) NFPA folding steps provided and installed in the following locations on the apparatus body:

- One (1) Left Side Front - Crosslay Access
- One (1) Right Side Front - Crosslay Access
- Four (4) Rear - Hose Bed Access

The steps shall be installed to meet all NFPA recommendations and shall have a minimum static load of 500 pounds with a non-slip textured finish.

NON-FOLDING STEP

Bidder Complies: YES NO

There shall be one (1) non-folding step fabricated and installed at the rear of the apparatus.

The step shall cover across the dump valve and the rear fill valve areas and shall extend approximately 12" from the rear of the apparatus.

The step shall be custom fabricated from polished diamond tread aluminum.

REAR STEP BUMPER

Bidder Complies: YES NO

There shall be a polished diamond tread aluminum step bumper fabricated and installed at the rear lower edge of the apparatus body.

This step shall be supported using 3" X 3" welded aluminum extrusion and shall extend 18" rearward from the body and the entire width across the body.

RUB RAIL

Bidder Complies: YES NO

There shall be a 2" polished diamond tread aluminum rub rail bolted at the bottom of the body, using nylon washers between the metal surfaces, along each side of the body.

The rail shall extend approximately 1.25" from the side of the body and run the entire length of the body except between the wheel openings.

The rail shall be taper cut on each end.

FENDERETTES

Bidder Complies: YES ___ NO ___

There shall be contoured polished rear fender trim installed around both rear wheel openings.

There shall be a rubber insert provided between the fenderettes and body.

The trim shall be bolted in place for easy removal and replacement.

WHEEL WELL LINER

Bidder Complies: YES ___ NO ___

There shall be rear wheel well liners fabricated from aluminum sheet installed in the rear wheel wells.

The wheel well liners shall be permanently installed to following the inside radius of the wheel well opening.

PORTABLE DUMP TANK STORAGE - ENCLOSED

Bidder Complies: YES ___ NO ___

There shall be a folding dump tank storage rack provided and installed on the finished apparatus constructed from polished diamond tread aluminum.

The storage rack shall be located on the left side of the apparatus body just above the low-side compartments.

The storage bracket shall be enclosed on all outer sides with a positive latching assembly.

The compartment shall be sized appropriately to carry a 2,500 gallon portable dump tank.

DUMP TANK - 2,500 GALLON

Bidder Complies: YES ___ NO ___

There shall be a Husky 2,500 gallon folding portable dump tank provided and installed on the finished apparatus.

The frame of the dump tank shall be aluminum to lower the overall weight of the tank.

The size of this dump tank is slightly larger than the apparatus body and will overhand on the front and/or rear.

The HD vinyl liner shall be red in color.

HARD SUCTION HOSE STORAGE

Bidder Complies: YES ___ NO ___

There shall be hard suction storage trays provided and installed on the finished apparatus.

One (1) tray shall be shall be located on the left side of the apparatus body above the dump tank rack and one (1) tray shall be on the right side of the apparatus above the ladders.

The storage trays shall include a nylon webbing enclosure strap on each end with Velcro.

The trays shall be sized appropriately to carry two (2) 10' sections of hard suction hose.

HARD SUCTION HOSE - LH/RL

Bidder Complies: YES ____ NO ____

There shall be two (2) 6.0" sections of PVC hard suction hose provided and installed on the finished apparatus.

The hoses shall have NST rocker lug couplings on the male and long handle lugs on the female end.

LADDER STORAGE

Bidder Complies: YES ____ NO ____

There shall be ladder storage brackets located on the officer side of the apparatus body above the side body compartments.

The brackets shall have a chrome finish and shall provide adequate storage for a 24' extension ladder and a 14' roof ladder.

There shall be a second ladder storage bracket provided to hold a 10' folding ladder.

FIRE SERVICE LADDERS

Bidder Complies: YES ____ NO ____

The following NFPA approved fire service ladders shall be provided and installed:

- One (1) 24' (2-Section) Duo-Safety Aluminum Extension Ladder
- One (1) 10' Duo-Safety Roof Ladder
- One (1) 10' Duo-Safety Folding (Attic) Ladder

STORAGE COMPARTMENTS

Bidder Complies: YES ____ NO ____

The compartments shall be constructed of formed and welded 3/16", 5052 formed and welded smooth aluminum plate that shall allow for the proper amount of flexion without the possibility of forming cracks.

Each compartment shall have a light gray Zolatone finish.

All compartments shall incorporate a sweep out design on the lowest horizontal surface. Each compartment shall be equipped with a ROM roll-up shutter style door.

The doors shall have a satin aluminum finish.

Each compartment shall utilize one (1) full height track-style LED light that shall activate when the door is in the open position.

The front and rear walls of the body shall include a false wall for accessing the electrical panels.

L1 COMPARTMENT

Bidder Complies: YES ____ NO ____

Immediately behind the pump panel on the driver side of the body shall be a low-side body compartment.

The depth of this compartment shall be 25" at the floor.

The interior opening of this compartment shall be approximately 28" high X 60" wide.

The door opening of this compartment shall be approximately 24" high X 57" wide.

There shall be a full height ROM V3 compartment light that is activated when the door is in the opened position.

L2 COMPARTMENT

Bidder Complies: YES ____ NO ____

Immediately behind the rear wheel on the driver side of the body shall be a low-side compartment.

The depth of this compartment shall be 25" at the floor.

The interior opening of this compartment shall be approximately 28" high X 18" wide.

The door opening of this compartment shall be approximately 24" high X 15" wide.

There shall be a full height ROM V3 compartment light that is activated when the door is in the opened position.

R1 COMPARTMENT

Bidder Complies: YES ____ NO ____

Immediately behind the pump panel on the officer side of the body shall be a low-side body compartment.

The depth of this compartment shall be 25" at the floor.

The interior opening of this compartment shall be approximately 28" high X 60" wide.

The door opening of this compartment shall be approximately 24" high X 57" wide.

There shall be a full height ROM V3 compartment light that is activated when the door is in the opened position.

R2 COMPARTMENT

Bidder Complies: YES ____ NO ____

Immediately behind the rear wheel on the officer side of the body shall be a low-side compartment.

The depth of this compartment shall be 25" at the floor.

The interior opening of this compartment shall be approximately 28" high X 18" wide.

The door opening of this compartment shall be approximately 24" high X 15" wide.

There shall be a full height ROM V3 compartment light that is activated when the door is in the opened position.

ROLL-UP COMPARTMENT DOORS - GEN IV

Bidder Complies: YES ____ NO ____

Each side compartment shall be equipped with a ROM shutter style roll-up door mounted in an aluminum track within an aluminum door frame and isolation seal.

The doors shall have a natural satin aluminum finish.

The doors shall be designed and installed for "front roll" in the apparatus compartment.

The door tracks shall be a one-piece aluminum extrusion that has an attaching and finishing flange incorporated into its design.

Each door shall have an incorporated drip rail with a seal specifically designed to prevent scratching the finished surface of the door.

The bottom rail on each door shall have an inverted "V" shaped seal to prevent water and debris from entering the compartment when door is closed.

The bottom rail extrusion on each door shall have a smooth interior surface to prevent loose equipment from jamming and obstructing smooth operation of the door.

Each individual door slat shall have interlocking end shoes to prevent side-to-side movement and to prevent binding of the door.

There shall be a co-extruded PVC inner seal between each individual door slat to prevent metal-to-metal contact and to repel moisture.

Each individual door slat shall have interlocking joints with a folding, locking flange to provide security and prevent full penetration by sharp objects.

All slats shall be constructed of double-wall extrusions 1.366" high by .315" thick.

The entire exterior surface shall be completely flat and all interior surfaces shall be concave to prevent loose equipment from interfering with door operation.

A magnetic door ajar system shall be integrated in the lift bar handle and retainer block to signal open door. No mechanical switches shall be used. There shall be a highly visible, permanently mounted and clearly labeled light in the cab to signal if a compartment door is ajar. The light shall be in plain view of the driver.

The door latch system shall be a full width, one piece lift bar and shall be operable by a single gloved hand. A two inch wide finger pull shall be integrated into the bottom rail extrusion to aid in one hand opening and closing.

A clip style system shall connect the curtain slats to the operator drum which shall allow easy tension adjustments without the aid of tools.

Each roll-up door shall have a four inch diameter counterbalance operator drum to assist in lifting the door and prevent accidental closure.

There shall be full height LED track style dual compartment lights integrated into the door side track and run the height of the compartment and shall be angled inward to shine light onto all interior surfaces.

The compartment light for each door shall be activated individually by each door when in the open position.

DOOR AJAR WARNING

Bidder Complies: YES ___ NO ___

A highly visible flashing warning light shall be mounted in the cab in clear view of the driver.

This light shall be activated by any door which is not closed or not secure.

LED COMPARTMENT LIGHTING

Bidder Complies: YES ___ NO ___

Each apparatus body compartment shall have a full height ROM V3 L.E.D. light vertically mounted in the compartment door track.

The lights shall be constructed of an unbreakable type clear poly type flexible material.

The lights shall function automatically and independently of other compartments when the compartment door is opened.

COMPARTMENT FLOOR TILES

Bidder Complies: YES ___ NO ___

As standard equipment each compartment shall have interlocking rubberized tiles (Turtle Tile) cut and installed in such a manner to provide a cushion to cargo and protect the floor of the compartment.

The tiles shall be readily removed, without the use of tools, for cleaning.

The tiles shall be black in color.

ELECTRICAL SYSTEM

Bidder Complies: YES ___ NO ___

All electrical equipment shall be installed to conform to current automotive electrical system standards.

All exposed wiring shall be run in a loom with a minimum 289 degrees rating.

All wiring looms shall be properly supported and attached to the apparatus body members along the entire run.

At any point where wire or looms must pass through metal, rubber grommets shall be installed to protect the wire from abrasion.

The wire shall be individually color coded to identify the function.

All wiring shall connect at a 12 volt electrical junction box located on the driver's side in the first left side compartment (L-1) in the left wall.

12-VOLT WIRING SYSTEM

Bidder Complies: YES ___ NO ___

All 12-volt electrical wiring shall be rated to carry 125% of the maximum current for which the circuit is protected.

The wire shall be of sufficient size so that a voltage drop in any electrical device shall not exceed 10%.

All wiring shall be color and function coded with the number and function being labeled (as required by NFPA 1901).

All wiring shall be routed through heavy-duty PVC split loom, securely attached and protected against heat, oil, and physical damage.

All locations where the wire passes through a body panel shall be protected with electrical grommets.

All connections shall be made using mechanical connectors and be screwed to terminal or junction box with machine screws.

Wire nut, insulation displacement, or piercing connections shall not be used.

All circuits shall be provided with properly rated low voltage over current protective devices of the automatic reset type.

A removable bulkhead shall be provided that extends from the floor to the ceiling of both side rear compartments shall be provided to protect rear wiring.

WIRING DIAGRAM

Bidder Complies: YES ___ NO ___

There shall be a wiring diagram provided of the body electrical panel as it interfaces with the chassis 12 volt electrical system.

The diagram shall be provided at time of delivery.

CLEARANCE LIGHTS/REFLECTORS

Bidder Complies: YES ___ NO ___

All apparatus body clearance lights shall be LED style.

All lower clearance lights and reflectors shall be mounted in a manner that provides protection from damage, and shall comply with FMVSS-108 regulations.

FMVSS BODY LIGHTING

Bidder Complies: YES ___ NO ___

Marker lights and reflectors shall include (2) amber front corner marker lights, two (2) amber rectangular reflectors, four (4) red rectangular reflectors, and three (3) red marker lights shall be centered at the rear.

The lights and reflectors shall meet or exceed the US Federal Motor Vehicle safety Standard # 108.

A license plate holder shall be on the rear of the apparatus body and shall be illuminated with the parking and/or headlights.

Two (2) red rear corner markers shall be installed at the trailing edge on either side of the apparatus body.

LICENSE PLATE LIGHT/BRACKET

Bidder Complies: YES ___ NO ___

A chrome plated license plate light shall be provided on the rear of the apparatus. The light shall function with the head light switch.

A license plate mounting bracket shall be provided that spaces the license plate away from the apparatus body.

KUSSMAUL PUMP PLUS COMBO

Bidder Complies: YES ___ NO ___

There shall be a Kussmaul 1000 pump plus combo battery and air maintainer provided and installed on the finished apparatus.

The system shall maintain a charge in the apparatus batteries and chassis air system while connected to the station 110 volt shoreline through the Kussmaul Super Auto-Eject receptacle.

There shall be a NEMA 5-15 plug end provided with the apparatus on delivery for customer installation to the station shoreline.

COMMUNICATIONS PRE-WIRE

Bidder Complies: YES ___ NO ___

The following communications related items shall have a pre-wire provision supplied and installed:

- Coax Cable and Antenna Base
- Radio Power Source

The two-way communications equipment shall be supplied and installed by the department to ensure compatibility with existing equipment.

LOAD MANAGER

Bidder Complies: YES ___ NO ___

There shall be a load manager integrated into the International chassis provided with the apparatus.

NFPA MINIMUM ELECTRICAL LOAD DEFINITION

Bidder Complies: YES ___ NO ___

The NFPA 1901 defined minimum electrical load shall consist of the total amperage required to simultaneously operate the following in a stationary mode:

1. Propulsion engine and transmission.
2. The clearance and marker lights.
3. Communication equipment. 5 amp default.
4. Illumination of all walking surfaces, the ground at all egress points, control and instrumentation panels and 50% of total compartment lighting.
5. Minimum warning lights required for "blocking right of way" mode.
6. The current to simultaneously operate and fire pump and all specified electrical devices.
7. Anything defined by the purchaser, in the advertised specifications, to be critical to the mission of the apparatus.

MASTER BATTERY DISCONNECT

Bidder Complies: YES ___ NO ___

A master battery disconnect switch shall be provided, mounted within easy reach of the driver when seated.

The switch shall be wired between the starter solenoid and the remainder of the electrical loads on the apparatus.

The batteries shall be connected directly to the starter solenoid.

The alternator shall be wired directly to the batteries through the ammeter shunt if one is provided, and not through the master load disconnect switch.

A green 'battery on' indicator light shall be provided in clear view of the driver.

The light shall be mounted in a manner that will not impair the driver's vision or reflect onto the windshield.

STOP, TAIL AND TURN LIGHTS

Bidder Complies: YES ___ NO ___

A surface mount taillight cluster shall be installed on each rear side of the vehicle.

The light modules shall be installed outboard on the rear on the lower portion of the apparatus body.

The fixture shall incorporate tail lights, stop lights, turn signals, four-way hazard flashers and back-up lights.

DOT marker and clearance lighting shall be installed in the lower rear step.

The tail lights modules shall be as follows:

- Whelen 600 Series 4" x 6" LED Red Taillights
- Whelen 600 Series 4" x 6" LED Amber Turn Arrows
- Whelen 600 Series 4" x 6" LED Clear Back-Up Lights

PERIMETER GROUND LIGHTING

Bidder Complies: YES NO

There shall be six (6) underbody LED perimeter lights furnished and installed.

The lights shall have an unbreakable polycarbonate lens and housing.

The light shall be sealed to help prevent moisture entry.

The ground lights shall be activated with application of the parking brake.

WARNING EQUIPMENT STANDARDS

Bidder Complies: YES NO

All optical warning equipment shall conform to the current NFPA 1901-2016.

The optical warning system shall consist of four (4) zones to include an upper and a lower zone as recommended by NFPA.

The optical warning system shall be capable of two separate signaling modes during emergency operations that shall switch as the parking brake is applied as follows:

- One mode shall signal to drivers and pedestrians that the apparatus is responding to an emergency and is calling for right of way.
- The other mode shall signal that the apparatus is stopped and is blocking the right of way.

ZONE A UPPER WARNING LIGHTING - FRONT

Bidder Complies: YES NO

One (1) Whelen NFPA Justice SUPER LED light bar shall be mounted on the top of the cab roof.

The light bar shall be 56" in length and mounted with low profile brackets.

The light bar shall be populated in the front and sides with clear and red modules.

ZONE A LOWER WARNING LIGHTING - FRONT

Bidder Complies: YES NO

Two (2) Whelen 600 series 4"x6" SUPER LED warning lights shall be provided and mounted on the apparatus.

A chrome bezel shall be provided around each light.

Two (2) red lights shall be mounted in the lower portion on the front of the chassis grill.

ZONE B UPPER WARNING LIGHTING - RIGHT

Bidder Complies: YES NO

One (1) Whelen L31 SUPER LED warning beacon shall be provided and mounted on the apparatus.

One (1) amber light shall be mounted as high and as far rearward on the apparatus body as possible.

ZONE B LOWER WARNING LIGHTING - RIGHT

Bidder Complies: YES NO

Two (2) Whelen 700 series 3"x7" SUPER LED warning lights shall be provided and mounted on the apparatus.

A chrome bezel shall be provided around the lights.

One (1) red light shall be mounted as low and as far forward on the apparatus cab as possible and one (1) red light shall be mounted as low as possible over the rear wheel well on the apparatus body.

ZONE C UPPER WARNING LIGHTING - REAR

Bidder Complies: YES NO

Two (2) Whelen L31 SUPER LED warning beacons shall be provided and mounted on the apparatus.

One (1) red and one (1) amber light shall be mounted as high as possible on the rear of the apparatus body.

ZONE C LOWER WARNING LIGHTING - REAR

Bidder Complies: YES NO

Two (2) Whelen 600 series 4"x6" SUPER LED warning lights shall be provided and mounted on the apparatus.

A chrome bezel shall be provided around the lights.

Two (2) red lights shall be mounted as low as possible on the rear of the apparatus body.

ZONE D UPPER WARNING LIGHTING - LEFT

Bidder Complies: YES NO

One (1) Whelen L31 SUPER LED warning beacon shall be provided and mounted on the apparatus.

One (1) red light shall be mounted as high and as far rearward on the apparatus body as possible.

ZONE D LOWER WARNING LIGHTING - LEFT

Bidder Complies: YES NO

Two (2) Whelen 700 series 3"x7" SUPER LED warning lights shall be provided and mounted on the apparatus.

A chrome bezel shall be provided around the lights.

One (1) red light shall be mounted as low and as far forward on the apparatus cab as possible and one (1) red light shall be mounted as low as possible over the rear wheel well on the apparatus body.

STATIONARY SCENE LIGHTS

Bidder Complies: YES ____ NO ____

A total of six (6) stationary 12 volt LED scene lights shall be provided and installed in the following locations on the apparatus:

- Four (4) FRC Spectra 900 LED Scene Lights – Two on Each Side of Body
- Two (2) FRC Spectra 900 LED Scene Lights – One on Each Side at Rear

The lights shall have a chrome plate trim bezel.

Switches shall be located in the cab to activate the 12 volt scene light(s). Each side and rear shall operate independent of the other.

STEP LIGHTING

Bidder Complies: YES ____ NO ____

All areas on the apparatus body designated as a stepping or standing surface shall be illuminated per NFPA 1901 recommendations.

The lights shall activate when the chassis parking brake is applied.

PAINT PROCEDURE

Bidder Complies: YES ____ NO ____

SHERWIN-WILLIAMS BASE/CLEAR COAT

After the apparatus body has been fully assembled and all mounting holes, etc. have been punched, machined, or drilled, the apparatus shall be fully disassembled for the paint process.

The apparatus body shall not be mounted on the chassis during the paint process.

All seams or flanges on the apparatus body shall be caulked or properly sealed to prevent moisture accumulation in flanged areas.

PAINT PROCESS

The apparatus body paint procedure shall consist of an eight (8) step finishing process as follows:

1. Manual Surface Preparation: All exposed metal surfaces on the apparatus exterior shall be thoroughly cleaned. All imperfections on the exterior metal surface shall be removed or filled prior to the priming process. All exposed metal shall be thoroughly abraded using a dual orbital air power sander.
2. Cleaning and Treatment: All surfaces shall be chemically cleaned per manufacturer specification to ensure proper adhesion.

3. Self-etching Primer Application: Acid etching primer shall be applied to the bare metal per manufacturer specification.

4. Primer/Surfacer Application: Sherwin-Williams urethane primer/surfacer shall be applied to the acid etching primer.

5. Dual Orbital Sanding: The primer/surfacer shall be thoroughly sanded to a superior smooth surface.

6. Cleaning: After sanding in step #5, all surfaces shall be chemically cleaned again per manufacturer specifications. The surface to be painted shall be clean of all oil, grease, and dirt to ensure proper adhesion.

7. Primer Sealer Application: Sherwin-Williams urethane primer/sealer shall be applied over the thoroughly sanded and cleaned primer/surfacer as per bulletin DFT-054.

8. Topcoat Application: Two coats of Sherwin-Williams basecoat color two component polyurethane paint shall be applied to the primer sealer. The base color shall be followed by two coats of Sherwin-Williams two component polyurethane clearcoat finish.

PAINT - ENVIRONMENTAL IMPACT

Bidder Complies: YES ____ NO ____

The apparatus manufacturer shall meet or exceed all EPA regulations regarding painting operations.

Pollution control shall include measures to protect the atmosphere, water and soil.

Controls shall include the following conditions:

- Topcoats and primers must be chrome and lead free.
- Metal treatment chemicals must be chrome free. The wastewater generated in the metal treatment process must be treated to remove any other heavy metals.
- Particulate emissions from painting operations must be collected by a dry filter or water wash process.
- Solvents used in clean-up operations must be collected, sent off-site for distillation and returned for reuse.

Additionally, the finished apparatus shall not be manufactured with or contain products that have ozone depleting substances.

Contractor shall, upon demand, present evidence that his manufacturing facility meets the above conditions and that it is in compliance with their State EPA rules and regulations.

REFLECTIVE LETTERING

Bidder Complies: YES ____ NO ____

A maximum of eighty (80) 4" maximum height reflective self-adhesive letters with black outline and drop shadow shall be applied to both sides of the chassis cab.

The exact type style, wording and placement of the lettering will be provided by the customer at the pre-build meeting.

Rockingham County Fire Department shall supply door logos to match the existing fleet.

8" NFPA REFLECTIVE STRIPE

Bidder Complies: YES NO

A 8" reflective stripe shall be applied to the apparatus.

The stripe shall be applied to a minimum of 50% of the length of the apparatus on each side, 50% across the rear and 25% across the front of the apparatus.

The stripe shall comply with NFPA 1901 requirements.

REAR CHEVRON STRIPING

Bidder Complies: YES NO

A minimum of 50 percent of the rear vertical surface of the apparatus shall be covered with 6 inches wide strips of alternating blue and gold retro-reflective striping.

The striping shall slope downward away from the centerline of the apparatus at a 45 degree angle.

The retro-reflective material shall conform to the requirements of ASTM D 4956 "Standard Specification for Retro-Reflective Sheeting for Traffic Control", Type I or better.

ON-SPOT TIRE CHAINS

Bidder Complies: YES NO

There shall be a set of On-Spot automatic tire chains provided and installed on the finished apparatus.

The chains shall be mounted on the rear most axle of the chassis and shall function from a switch located in the cab.

The switch shall be placed in easy reach of the driver and shall be clearly labeled to its function.

There shall be a cover located around the switch to prevent unwanted activation.

LOOSE EQUIPMENT

Bidder Complies: YES NO

The following equipment items shall be included with and mounted on the finished apparatus:

- One (1) Bag of Miscellaneous Screws, Nuts and Bolts

NFPA REQUIRED EQUIPMENT

Bidder Complies: YES NO

The end user of this apparatus shall provide all other equipment and accessories that are required by NFPA 1901 but not specifically listed in these specifications.

PURCHASER'S RESPONSIBILITY

Bidder Complies: YES NO

The purchaser shall be responsible for any NFPA recommended options not detailed.

These specifications are as complete, accurate and up to date as possible; however, it is the purchaser's responsibility for the safe, legal operation and maintenance of this apparatus and equipment.

PAYMENTS AND PAYMENT TERMS

Bidder Complies: YES ____ NO ____

The finished apparatus shall be paid for in full at time of final delivery and acceptance.

There shall be no advanced payment required.

PERFORMANCE BOND

Bidder Complies: YES ____ NO ____

There shall be no advanced payments required on the apparatus and therefore a performance bond is not required.

GENERAL TERMS AND CONDITIONS

APPLICABLE LAWS

This solicitation and any resulting contract shall be governed in all respects by the laws of the Commonwealth of Virginia and any litigation with respect thereto shall be brought in the courts of the County. The agency and the contractor are encouraged to resolve any issues in controversy arising from the award of the contract or any contractual dispute using Alternative Dispute Resolution (ADR) procedures (Code of Virginia, § 2.2-4366). The contractor shall comply with all applicable federal, state and local laws, rules and regulations.

ANTI-DISCRIMINATION

By submitting their bids, offerors certify to the County that they will conform to the provisions of the Federal Civil Rights Act of 1964, as amended, as well as the Virginia Fair Employment Contracting Act of 1975, as amended, where applicable, the Virginians With Disabilities Act, the Americans With Disabilities Act and § 2.2-4311 of the Virginia Public Procurement Act (VPPA). If the award is made to a faith-based organization, the organization shall not discriminate against any recipient of goods, services, or disbursements made pursuant to the contract on the basis of the recipient's religion, Religious belief, refusal to participate in a religious practice, or on the basis of race, age, color, gender or national origin and shall be subject to the same rules as other organizations that contract with public bodies to account for the use of the funds provided; however, if the faith-based organization segregates public funds into separate accounts, only the accounts and programs funded with public funds shall be Subject to audit by the public body. (Code of Virginia, § 2.2-4343.1E).

In every contract over \$10,000 the provisions in 1. and 2. below apply:

1. During the performance of this contract, the contractor agrees as follows:
 - a. The contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability, or any other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
 - b. The contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, will state that such contractor is an equal opportunity employer.
 - c. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting these requirements.
2. The contractor will include the provisions of 1. above in every subcontract or purchase order over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

ETHICS IN PUBLIC CONTRACTING

By submitting their bids, offerors certify that their bids are made without collusion or fraud and that they have not offered or received any kickbacks or inducements from any other offeror, supplier,

manufacturer or subcontractor in connection with their bid), and that they have not conferred on any public employee having official responsibility for this procurement transaction any payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised, unless consideration of substantially equal or greater value was exchanged.

The offeror shall identify any actual or potential conflicts of interest that exist, or which may arise if the offeror is recommended for award, and propose how such conflicts might be resolved.

By his/her signature on the bid documents submitted, each offeror attests that her/her agents and/or employees, to the best of his/her knowledge and belief, have not in any way colluded with anyone for and on behalf of the offeror, or themselves, to obtain information that would give the offeror an unfair advantage over others, nor has he/she colluded with anyone for and on behalf of the offeror, or itself, to gain any favoritism in the award of this Request for Bid.

IMMIGRATION REFORM AND CONTROL ACT OF 1986

By submitting their bids, offerors certify that they do not and will not during the performance of this contract employ illegal alien workers or otherwise violate the provisions of the federal Immigration Reform and Control Act of 1986.

ANTITRUST

By entering into a contract, the contractor conveys, sells, assigns, and transfers to Rockingham all rights, title and interest in and to all causes of action it may now have or hereafter acquire under the antitrust laws of the United States and Rockingham County , relating to the particular goods or services purchased or acquired by Rockingham under said contract.

CLARIFICATION OF TERMS

If any prospective offeror has questions about any specifications or other solicitation documents, the prospective offeror should contact the buyer whose name appears on the face of the solicitation no later than five working days before the due date. Any revisions to the solicitation will be made only by addendum issued by the buyer.

PAYMENT TO PRIME CONTRACTOR

1. Invoices for items ordered, delivered and accepted shall be submitted by the contractor directly to the payment address shown on the purchase order/contract. All invoices shall show the state contract number and/or purchase order number; social security number (for individual contractors) or the federal employer identification number (for proprietorships, partnerships, and corporations).
2. Any payment terms requiring payment in less than 30 days will be regarded as requiring payment 30 days after invoice or delivery, whichever occurs last. This shall not affect offers of discounts for payment in less than 30 days, however.

3. All goods or services provided under this contract or purchase order, that are to be paid for with public funds, shall be billed by the contractor at the contract price, regardless of which public agency is being billed.
4. The following shall be deemed to be the date of payment: the date of postmark in all cases where payment is made by mail, or the date of offset when offset proceedings have been instituted as authorized under the Virginia Debt Collection Act.
5. Unreasonable Charges. Under certain emergency procurements and for most time and material purchases, final job costs cannot be accurately determined at the time orders are placed. In such cases, contractors should be put on notice that final payment in full is contingent on a determination of reasonableness with respect to all invoiced charges.

Charges which appear to be unreasonable will be researched and challenged, and that portion of the invoice held in abeyance until a settlement can be reached. Upon determining that invoiced charges are not reasonable, the County shall promptly notify the contractor, in writing, as to those charges which it considers unreasonable and the basis for the determination. A contractor may not institute legal action unless a settlement cannot be reached within thirty (30) days of notification. The provisions of this section do not relieve an agency of its prompt payment obligations with respect to those charges which are not in dispute (Code of Virginia, § 2.2-4363).

QUALIFICATIONS OF OFFERORS

The County may make such reasonable investigations as deemed proper and necessary to determine the ability of the offeror to furnish the goods and the offeror shall furnish to the County all such information and data for this purpose as may be requested. The County reserves the right to inspect offeror's physical facilities prior to award to satisfy questions regarding the offeror's capabilities.

The County further reserves the right to reject any bid if the evidence submitted by, or investigations of, such offeror fails to satisfy the County that such offeror is properly qualified to carry out the obligations of the contract and to provide the services and/or furnish the goods contemplated therein.

TESTING AND INSPECTION

The County reserves the right to conduct any test/inspection it may deem advisable to assure goods and services conform to the specifications.

CHANGES TO THE CONTRACT

Changes can be made to the contract in any of the following ways:

1. The parties may agree in writing to modify the scope of the contract. An increase or decrease in the price of the contract resulting from such modification shall be agreed to by the parties as a part of their written agreement to modify the scope of the contract.
2. The County may order changes within the general scope of the contract at any time by written notice to the contractor. Changes within the scope of the contract include, but are not limited to, things such as services to be performed, the method of packing or shipment, and the place of delivery or installation. The contractor shall comply with the notice upon receipt. The contractor shall be compensated for any additional costs incurred as the result of such order and shall give the County a credit for any savings. Said compensation shall be determined by one of the following methods:
 - a. By mutual agreement between the parties in writing; or
 - b. By agreeing upon a unit price or using a unit price set forth in the contract, if the work to be done can be expressed in units, and the contractor accounts for the number of units of work performed, subject to the County's right to audit the contractor's records and/or to determine the correct number of units independently.

DEFAULT

In case of failure to deliver goods or services in accordance with the contract terms and conditions, the County, after due oral or written notice, may procure them from other sources and hold the contractor responsible for any resulting additional purchase and administrative costs. This remedy shall be in addition to any other remedies which the County may have.

TAXES

Sales to the County are normally exempt from State sales tax. State sales and use tax certificates of exemption, Form ST-12, will be issued upon request. Deliveries against this contract shall usually be free of Federal excise and transportation taxes. Sales tax, however, is paid by Rockingham County on materials and supplies that are installed by a contractor and become a part of real property. Contractors are not exempt from paying taxes on these categories, as they are considered to be a cost of doing business and should be considered in pricing when preparing a bid. The County's excise tax exemption registration number is 54-6001528.

DRUG FREE WORKPLACE

During the performance of this contract, the contractor agrees to (i) provide a drug-free workplace for the contractor's employees; (ii) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition; (iii) state in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this section, "drug-free workplace" means a site for the performance of work done in connection with a specific contract awarded to a contractor, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any

controlled substance or marijuana during the performance of the contract.

NONDISCRIMINATION OF CONTRACTORS:

A bidder, offeror, or contractor shall not be discriminated against in the solicitation or award of this contract because of race, religion, color, sex, national origin, age, disability, faith-based organizational status, any other basis prohibited by state law relating to discrimination in employment or because the bidder or offeror employs ex-offenders unless the state agency, department or institution has made a written determination that employing ex-offenders on the specific contract is not in its best interest. If the

AUDIT

The contractor shall retain all books, records, and other documents relative to this contract for five (5) years after final payment, or until audited by Rockingham County, whichever is sooner. The agency, its authorized agents, and/or state auditors shall have full access to and the right to examine any of said materials during said period.

NON-APPROPRIATION

Funding for any Agreement between the County and a Selected Firm (s) is dependent at all times upon the appropriation of funds by the County Board of Supervisors. In the event that funding to support this Agreement is not appropriated, whether in whole or in part, then the Agreement may be terminated by the County effective the last day for which appropriated funding is available.

COOPERATIVE PURCHASING/USE OF AGREEMENT BY THIRD PARTIES

It is the intent of this RFP and any resulting Agreement to allow for cooperative procurement. Accordingly, any public body (to include government/state agencies, political subdivisions, etc.), cooperative purchasing organizations may access the Agreement if authorized by the Selected Firm(s).

Participation in this cooperative procurement is strictly voluntary. If authorized by the Selected Firm(s), the Agreement may be extended to the entities indicated above to purchase goods and services in accordance with the Agreement. As a separate contractual relationship, the participating entity will place its own orders with the Selected Firm(s) and will fully and independently administer its use of the Agreement to include contractual disputes, invoicing and payments without direct administration from the County. No modification of the Agreement or execution of a separate agreement is required to participate; however, the participating entity and the Selected Firm(s) may modify the terms and conditions of the Agreement to accommodate specific governing laws, regulations, polices, and business goals required by the participating entity. Any such modification will apply solely between the participating entity and the Selected Firm(s). It is understood and agreed that the County is not responsible for the acts or omissions of any entity, and will not be considered in default of the Agreement no matter the circumstances.

Use of the Agreement does not preclude any participating entity from using other agreements or competitive processes as needed.

CONTRACT DOCUMENTS

1. The contract entered into by the parties shall consist of the Invitation to Bid, the bid submitted by the vendor; General Terms and Conditions; the Special Terms and Conditions; the drawings, if any; the specifications; and all modifications and addenda to the foregoing documents, all of which shall be referred to collectively as the contract documents.
2. All time limits stated in the contract documents, including but not limited to the time for completion of the work, are of the essence of the contract.
3. Anything called for by one of the contract documents and not called for by the others shall be of like effect as if required or called for by all, except that a provision clearly designed to negate or alter a provision contained in one or more of the other contract documents shall have the intended effect.

LAWS AND REGULATIONS

1. The contractor shall comply with all laws, ordinances, rules, regulations, and lawful orders of any public authority bearing on the performance of the work and shall give all notices required thereby.
2. This contract and all other contracts and subcontracts are subject to the provisions of Articles 3 and 5, Chapter 4, Title 40.1, Code of Virginia, relating to labor unions and the "right to work." The contractor and its subcontractors, whether residents or nonresidents of the Commonwealth of Virginia, who perform any work related to the project shall comply with all of the said provisions.
3. The provisions of all rules and regulations governing safety as adopted by the Safety Codes Commission of the Commonwealth of Virginia and as issued by the Department of Labor and Industry under Title 40.1 of the Code of Virginia shall apply to all work under this contract. Inspectors from the Department of Labor and Industry shall be granted access to the work for inspection without first obtaining a search warrant from the court.
4. All bids submitted shall have included in their price the cost of any business and professional licenses, permits, or fees required by Rockingham County or the Commonwealth of Virginia.

PREPARATION AND SUBMISSION OF BIDS

Bids must give the full business address of the offeror and be signed by him/her with his/her usual signature. Bids by partnerships must furnish the full name of all partners and must be signed in the partnership name by one of the members of the partnership or any authorized representative, followed by the designation of the person signing. Bids by corporations must be signed with the legal name of the corporation followed by the name of the State in which it is incorporated and by the signature and designation of the president, secretary, or other person authorized to bind it in the matter. The name of each person signing shall also be typed or printed below the signature. A bid by a person who affixes to the signature the word "President," "Secretary," "Agent" or other designation without disclosing the principal, may be held to be the bid of the individual signing. When requested by the County, satisfactory evidence of the authority of the officer signing in behalf of the corporation shall be furnished.

WITHDRAWAL OR MODIFICATION OF BIDS

Bids may be withdrawn or modified by written notice received from offerors prior to the deadline fixed for bid receipt. The withdrawal or modification may be made by the person signing the bid or by an individual(s) who is authorized by him/her on the face of the bid. Written modifications may be made on a separate document. Written modifications, whether the original is delivered, or transmitted by facsimile, must be signed by the person making the modification or withdrawal.

RECEIPT AND OPENING OF BIDS

1. It is the responsibility of the offeror to assure that his/her bid is delivered to the place designated for receipt of bids and prior to the time set for receipt. Bids received after the time designated for receipt of bids will not be considered.
2. The provisions of § 2.2-4342 of the Code of Virginia, as amended, shall be applicable to the inspection of bids received.

PROPRIETARY INFORMATION

Section 2.2-4342-F of the Code of Virginia states: Trade secrets or proprietary information submitted by a bidder, Bidder, or contractor in connection with a procurement transaction or prequalification application submitted pursuant to subsection B of 2.2-4317 shall not be subject to the Virginia Freedom of Information Act (2.2-3700 et seq.); however, the bidder, offeror, or contractor shall (i) invoke the protections of this section prior to or upon submission of the data or other materials, (ii) identify the data or other materials to be protected, and (iii) state the reasons why protection is necessary.

BID ACCEPTANCE PERIOD

Any bid in response to this solicitation shall be valid for (60) days. At the end of the (60) days the bid may be withdrawn at the written request of the bidder. If the bid is not withdrawn at that time it remains in effect until an award is made or the solicitation is canceled.

TERMINATION BY OWNER FOR CONVENIENCE

1. Owner may terminate this contract at any time without cause, in whole or in part, upon giving the contractor notice of such termination. Upon such termination, the contractor shall immediately cease work and remove from the project site all of its labor forces and such of its materials as owner elects not to purchase or to assume in the manner hereinafter provided. Upon such termination, the contractor shall take such steps as owner may require to assign to the owner the contractor's interest in all subcontracts and purchase orders designated by owner. After all such steps have been taken to owner's satisfaction, the contractor shall receive as full compensation for termination and assignment the following:
2. All amounts then otherwise due under the terms of this contract,

3. Amounts due for work performed subsequent to the latest Request for Payment through the date of termination,
4. Reasonable compensation for the actual cost of demobilization incurred by the contractor as a direct result of such termination. The contractor shall not be entitled to any compensation for lost profits or for any other type of contractual compensation or damage other than those provided by the preceding sentence. Upon payment of the forgoing owner shall have no further obligations to the contractor of any nature.
5. In no event shall termination for the convenience of the owner terminate the obligations of the contractor's surety on its payment and performance bonds

TRAINING, OPERATION, AND MAINTENANCE OF EQUIPMENT

1. The contractor, in conjunction with his subcontractors and suppliers, shall provide the owner's operations and maintenance personnel with instruction and training in the proper operation and maintenance of the equipment and related controls provided or altered in the work.
2. The contractor shall provide the owner with a minimum of two (2) copies of operating, maintenance and parts manuals for all equipment provided in the project. Further specific requirements may be indicated in the specifications.

ROCKINGHAM COUNTY FIRE DEPARTMENT

BIDDER INFORMATION FORM

Invitation to Bid #17-0628-01

Fire Department Water Tanker Truck

MANUFACTURER: _____

ADDRESS: _____

PHONE: _____

DEALER – REPRESENTATIVE: _____

EMAIL: _____

PHONE: _____

Having examined the BUYER’S specifications for a Fire Department Water Tanker Truck, the BIDDER submits a TOTAL BID PROPOSAL PRICE OF:

_____ DOLLARS AND _____ CENTS

DELIVERY (CALANDER DAYS): _____

BIDDER understands that the bid proposal shall not be withdrawn for a period of 60 calendar days following the date of the bid proposal opening.

BIDDER understands that the BUYER may reject any and all bids and may not negotiate with any one BIDDER to reduce or alter the bid proposal.

Respectfully Submitted:

Signature _____ Title _____ Date: _____