

**Town of Algoma Fire Department**  
Winnebago County, Wisconsin  
**3,000 Gallon Tender Bid**

**AGENCY:** Town of Algoma Fire Department

**BID TITLE:** 3,000 Gallon Tender

**PURPOSE:** The purpose of this document is to provide interested parties with information to enable them to prepare and submit a bid for one (1) 3,000-gallon dry side tanker.

**BUDGET:** \$450,000

**PUBLICATION:** January 22, 2026 and January 28, 2026

**BID CLOSING DATE/TIME:** February 4, 2026, 12:00 P.M. Central Time

**SUBMITTAL INSTRUCTIONS:**

Each bid shall be submitted in the same exact sequence as the attached specifications for ease of checking compliance of bids with submitters specifications. A complete proposal shall include a technical proposal, cost proposal, and be signed by an authorized representative of the manufacturing company being submitted.

**All proposals are due and must be delivered to the Town of Algoma Town Hall on, or before, Wednesday, February 4, 2026 at 12:00pm CST.**

Email submittals should be sent with the subject "Town of Algoma–Tender Bid" to [ksawicki@townofalgoma.org](mailto:ksawicki@townofalgoma.org).

Physical copies may be delivered by mail or in person by the deadline listed above to:

Town of Algoma  
Attn: Tender Bid  
15 N Oakwood Road  
Oshkosh, WI 54904

If further information is required, contact Fire Chief Kevin Sawicki at 920-235-3789 or [ksawicki@townofalgoma.org](mailto:ksawicki@townofalgoma.org).

**SUBMISSION OF PROPOSALS:**

*LATE OR UNSIGNED PROPOSALS WILL BE REJECTED*

The Department will not be liable to any vendor/contractor for any unforeseen circumstances, delivery, or postal delays. Postmarking on the due date will not substitute for receipt of the proposal. Vendors are responsible for submission of their bid. Additional time will not be granted to a single vendor; however, additional time may be granted to all vendors at the discretion of the Town.

**Date Issued:** 1/22/26

## **FIRE APPARATUS SPECIFICATIONS**

Sealed proposals are desired from reputable makers of automobile fire apparatus in accordance with these specifications and with the advertisement, a copy of which is attached, for the piece of apparatus listed as follows:

Fire Truck, fire pump, apparatus body, tank, and all other equipment in accordance with the following general requirements.

## **GENERAL REQUIREMENTS**

The terms “contractor”, “vendor”, “submitter”, “consultant” and “manufacturer” are used interchangeably in this document, and all refer to the company submitting the bid.

Each bid must be accompanied by the submitter’s accurate written specifications covering the apparatus and equipment, which it is proposing to furnish and to which the apparatus furnished under the Contract must conform.

It is the intent of these specifications to cover the furnishing and delivery to the Town of Algoma Fire Department, complete apparatus equipped as specified. All specifications herein contained are considered as minimum threshold specifications. Some items have been specified by brand name or model number. These have been carefully selected because of their reliability, compatibility with present equipment, and local availability of parts.

To receive a complete and thoughtful proposal, vendors are encouraged to contact Chief Kevin Sawicki with questions. It is acknowledged that not every detail related to all aspects of the fire truck is addressed in this bid. Submitters are urged to present a proposal that addresses all aspects required to construct and deliver a high quality and masterfully designed ground tanker. All references to specific parts using a brand name include equivalent parts by other brands so long as said equivalent parts are truly equivalent. All parts of the fire truck shall be new.

Exceptions taken in areas other than listed above must be listed on a separate page and marked “Exceptions to Specifications”. Every exception taken shall be listed as to page number and paragraph. Failure to provide the required exception list with the bid will be cause for rejection of that proposal.

Such details and other construction features not specifically covered herein shall conform with all State and Federal requirements, and the NFPA 1901 “Standard for Automotive Fire Apparatus” in effect at the time the contract is signed.

Any test equipment required, or expense incurred for the UL pump test shall be borne by the contractor supplying this equipment.

All questions regarding this request for bids shall be submitted via email to Chief Kevin Sawicki at [ksawicki@townofalgoma.org](mailto:ksawicki@townofalgoma.org).

**All questions shall be submitted on or before January 26 at 4:00 p.m.**

Should any prospective consultant be in doubt as to the true meaning of any portion of this request for bids, or should the consultant find any ambiguity, inconsistency, or omission therein, the consultant shall make a written request for an official interpretation or correction by the due date above to the email address provided.

Corrections, or additions to this request for bids will be made only as an official addendum. Any addendum issued by the Town of Algoma Fire Department shall become part of the request for bids and must be incorporated in the proposal where applicable.

## **RELIABILITY OF CONTRACTOR/VENDOR**

Contractors shall furnish satisfactory evidence that they have the ability to construct the apparatus specified and shall state in the bid the location of the factory where the apparatus is to be built, and also where future service work will be performed.

## **COST LIABILITY**

The Department assumes no responsibility or liability for costs incurred by the vendor/contractor prior to the award of a contract for the provision of the Tender. By submitting a bid, the contractor agrees to bear all costs incurred or related to the preparation, submission, and selection process for the bid.

## **INSURANCE REQUIREMENTS**

Each submitter must include a Certificate of Insurance listing the proposed manufacturer's product liability insurance coverage in the bid. Submitted Certificate shall name the apparatus manufacturer, insurance company, policy number, and effective dates of the insurance policy.

The manufacturer shall maintain full insurance coverage on the purchaser's cab and chassis from time of first possession by the manufacturer until the apparatus is delivered and accepted by the purchaser. The Town of Algoma Fire Department reserves the right to require proof of insurance from the manufacturer's insurance carrier prior to entering into a contract for the apparatus.

The contractor shall procure and maintain at all times such insurance policies, as will protect itself and the Department from all claims for bodily injuries, death or property damage which may arise under this contract; whether the act(s) or omission(s) giving rise to the claim were made by the contractor, any subcontractor or anyone employed by them directly or indirectly.

To the fullest extent permitted by law, contractor shall indemnify, defend and hold the Department, its officers, employees and agents harmless from all suits, claims, judgments and expenses, including attorney's fees, resulting or alleged to result, from any acts or omissions by contractor or its employees and agents occurring in the performance of or breach in this Agreement, except to the extent that any suit, claim, judgment or expense are finally judicially determined to have resulted from the Department's negligence or willful misconduct or its failure to comply with any of its material obligations set forth in this Agreement.

## **DRAWINGS**

A CAD produced line drawing of the exact apparatus being proposed must be furnished with the bid. Since the blueprint drawing is required of all submitters, any bid submitted without a drawing as specified will be considered non-responsive. Drawing must include the left side with chassis cab, right, and rear views of the vehicle. Drawing must be a large size "D", (24" x 36") and shall be a drawing of the exact apparatus as proposed, not a drawing of another similar unit. All submitted drawings will become a part of the bid.

## **COMPLETION DATE**

Submitters shall indicate in their proposals; the number of working days for delivery of the completed apparatus, from the date of proposal acceptance by the Manufacturer.

## **CARRYING CAPACITY**

The GAWR and GCWR or GVWR of the chassis shall be adequate to carry the fully equipped apparatus including full water and other tanks, the specified hose load, unequipped personnel weight, ground ladders, and miscellaneous equipment.

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

### **WARRANTY**

All warranties shall be disclosed and provided to the fire department.

### **BID AWARD**

The bid will be awarded to the most "responsible manufacturer", if bid is in the best interest of the Town of Algoma Fire Department.

When analyzing the bids and recommending a successful manufacturer, superior design, completion time, workmanship, materials, operating costs, location of factory, past experience, length of incorporation and compliance with specifications will be taken into consideration.

The Town of Algoma Fire Department reserves the right to waive any formality in the bids received if such waiver is in the best interest of the Town of Algoma Fire Department and, also, to accept any item in the bid found to be of superior quality or otherwise preferred by the Town of Algoma Fire Department.

### **REJECTION OF PROPOSALS**

The right is reserved to reject any or all proposals or to accept such proposal as is in the best interest of the Department. All bid requirements and specifications as written are considered minimum, threshold specifications. Bids will be rejected which substitute less-substantial materials and/or methods of body construction than those specified.

**The Department is not, in any way, obligated to accept the lowest bid.**

### **RESERVATION OF RIGHTS**

1. The Department reserves the right in its sole and absolute discretion to accept or reject any or all bids, or alternative bids, in whole or in part, with or without cause.
2. The Department reserves the right to waive, or not waive, informalities or irregularities in terms or conditions of any proposal if determined by the Department to be in its best interest.
3. The Department reserves the right to request additional information from any or all vendors.
4. The Department reserves the right to reject any proposal that it determines to be unresponsive and deficient in any of the information requested within the bid request.
5. The Department reserves the right to determine whether the scope of the project will be entirely as described in the bid request, a portion of the scope, or a revised scope be implemented.
6. The Department reserves the right to select one or more contractors to perform services.
7. The Department reserves the right to retain all proposals submitted and to use any ideas in a bid regardless of whether that bid is selected. Submission of a bid indicates acceptance by the contractor of the conditions contained in this bid request, unless clearly and specifically noted in the bid submitted.
8. The Department reserves the right to disqualify bids that fail to respond to any requirements outlined in the bid request, or failure to enclose copies of the required documents outlined within bid request.

## **DESIGN REQUIREMENTS**

Specified design features of the apparatus have been carefully selected because of their safety, integrity and consistency with existing apparatus. It is expected that all submitters will adhere to the compartmentation layout, etc., since these features can be produced by all fire apparatus manufacturers.

All aspects of the vehicle shall be properly engineered with priority given to firefighter safety, ease of operation, and maintenance of the apparatus. The vehicle shall be free from hazardous protrusions, angles, or sharp corners that might injure a firefighter or equipment.

All water, air, fuel, hydraulic, and/or oil lines on the chassis and apparatus shall be properly located and securely tie wrapped to prevent scuffing or abrasion. Durable type grommets or loom material shall be used to protect the lines wherever a line passes through the apparatus body or frame rail sections.

All grease fittings, bleeders, filler plugs, drains, and check points shall be located to be easily accessible. No special tools shall be required to access these components for normal service or maintenance of the vehicle.

All parts and components on the vehicle shall be positioned for ease of inspection, and recognition of wear or failure. Easily removable access or cover plates shall be provided for all items requiring periodic service or adjustment. Access panels shall be of the hinged or quick disconnect design, allowing ease of access.

Design of the apparatus should be such that no disassembly of the body or any of its parts is required for normal maintenance.

All components of the chassis and apparatus shall be protected against rain, snow or other adverse weather conditions.

## **ACCEPTANCE TESTS AND REQUIREMENTS**

Manufacturer's pump test and Certification tests shall be conducted by the manufacturer in accordance with requirements of NFPA 1901. Certificate of testing shall be furnished to the purchaser.

## **NOTE**

Responsibility for the apparatus and all equipment shall remain with the contractor until the apparatus and equipment is delivered to the Town of Algoma Fire Department.

## **APPARATUS DESIGN**

### **ENGINEERING BLUEPRINTS**

The manufacturer shall provide construction drawings for approval prior to actual construction of the vehicle.

### **INSPECTION TRIPS**

Inspection trips for The Town of Algoma Fire Department personnel (up to 4 personnel) shall be made to the facility during construction of the apparatus. Typical inspections are mid-point and final. Successful bidder shall consult with the Town of Algoma Fire Department truck build committee chairperson or Fire Chief as to the proper timing of the inspection trips.

### **DEMONSTRATION**

The Town of Algoma Fire Department personnel shall be properly instructed as to the proper use of the entire apparatus including, but not limited to, chassis, fire pump system, the apparatus and all equipment.

The initial demonstration will take place in conjunction with the final inspection of the completed vehicle.

### **COMPLETE PRINTED MANUAL**

The manufacturer shall provide with the vehicle upon delivery, one (1) complete owner's manual. This manual shall be in a notebook type binder, with reference tabs for each section of the vehicle. A USB drive with all the printed material in an electronic format (PDF required; other file types may be included) shall also be provided.

Within each section shall be:

- Individual component manufacturer instruction and parts manuals
- Warranty forms for the body
- Warranty forms for all major components
- Warranty instructions and format to be used in compliance with warranty obligations
- Wiring diagrams
- Installation instruction and drawings for major parts
- Visual graphics and electronic photos for the installation of major parts
- Necessary normal routine service forms, publications, and components of the body portion of the apparatus
- Technical publications for training and instruction on major body components
- Warning and safety related notices for personnel protection
- Cab and chassis manuals on parts, service and maintenance shall be provided

### **DELIVERY DATE:**

Provide a delivery date of the apparatus for the department. Preference points will be given to the manufacturer with the timeliest completion.

### **ANGLE OF APPROACH/DEPARTURE**

The angle of approach/departure shall be at least the minimum as recommended by NFPA.

### **VEHICLE STABILITY**

The apparatus shall meet one of the requirements, as stated by NFPA for vehicle stability.

### **WEIGHT AND BALANCE REVIEW**

Included with the proposal and delivery of the apparatus will be a complete weight analysis of the apparatus. The apparatus shall meet DOT and NFPA weight guidelines.

### **ELECTROLYSIS CORROSION CONTROL**

All dissimilar metals, fasteners, bracket will include appropriate barrier protection.

### **LOW VOLTAGE ELECTRICAL SPECIFICATIONS**

The electrical system specified for this apparatus will be designed with all panels, electrical connections, and electrical components to be of the latest Federal DOT standards and NFPA recommendations.

### **ELECTRICAL DRAWINGS**

Each separate electrical function will include a complete set of drawings specific to that apparatus and that electrical function.

### **LOW VOLTAGE ELECTRICAL SPECIFICATIONS**

The electrical system specified for this apparatus will be designed with all panels, electrical connections, wiring harnesses, and electrical components to be the latest Federal DOT standards and NFPA recommendations.

### **OVERALL LENGTH**

The maximum overall length is 33 feet. Priorities are to keep the apparatus height and length as small as possible.

### **OVERALL HEIGHT**

The height of the body shall be equal to or less than the height of the emergency light bar on the cab. Priorities are to keep the apparatus height and length as small as possible.

### **CHASSIS**

The proposed chassis must be properly rated for the weight of the apparatus. To include two (2) personnel, loose equipment, permanently installed equipment, and 3,000 gallons of water. The preferred chassis are:

- Freightliner M2; or
- Kenworth

### **CAB**

The cab shall be a two-door commercial chassis.

### **ENGINE**

The chassis engine shall be a 360 HP or greater depending on availability. If another engine is quoted, explain the reason why.

### **TOP SPEED**

Top speed shall be set to 72 mph. All components from the engine to rear axle shall be appropriately designed for that speed.

### **TRANSMISSION**

The transmission shall be an Allison 3000 EVS with PTO provision.

### **BRAKES**

Brakes shall be drum and be appropriately sized for the apparatus.

### **AUXILIARY ENGINE BRAKE**

One (1) auxiliary engine compression brake with VG turbo shall be installed to assist in slowing and controlling the vehicle as required by NFPA 1901. An on-off control switch and a high-medium-low selector switch shall be mounted in the cab accessible to the driver.

When the on-off switch is in the “on” position, the engine brake shall be automatically applied whenever the accelerator is in the idle position and the automatic transmission is in the lock-up mode. If the accelerator is depressed or if the on-off switch is placed in the “off” position, the engine brake shall immediately release and allow the engine to return to its normal function.

### **FAST-IDLE SYSTEM**

A fast-idle system shall be provided and controlled by a switch accessible by the driver. The system shall increase engine idle speed to a preset RPM for increased alternator output.

### **MULTIPLEX WIRING**

The truck shall be equipped with a multiplex wiring system.

### **REAR AXLE DIFFERENTIAL CONTROL**

The rear axle shall include a driver controlled differential lock. This shall allow the main differential to be locked and unlocked. There shall be a rocker switch to control the differential lock in the cab.

### **TIRES**

Michelin X Works Z 20 ply radial front tires.

Michelin X Works Z 16 ply radial rear tires

### **FRONT WHEELS**

The front wheels shall be 22.50-inch aluminum Alcoa wheels.

### **REAR WHEELS**

The rear wheels shall be 22.50-inch aluminum Alcoa wheels.

### **HUB AND LUG NUT COVERS**

The apparatus shall have chrome or stainless-steel hub and lug nut covers on the front and tandem rear axles – supplied separately.

### **CLIMATE CONTROL**

The cab shall contain heater and air conditioning units to provide climate control to the cab.

### **CAB INSULATION**

The cab shall be lined with insulation to act as a noise barrier and assist in temperature control.

### **REARVIEW MIRRORS**

Mirrors shall be black in color. The mirrors shall be mounted on the driver and officer doors of the cab.

The mirrors shall be heated and power adjustable. The mirror control switches shall be located within easy reach of the driver.

### **SEATS**

The driver seat shall have air suspension with multiple-way adjustment.

The officer seat shall be equipped with multiple-way adjustment

### **CAB DOOR WINDOWS**

Full power windows shall be provided for the cab doors. Driver shall have easy access the controls for both the driver and passenger windows.

### **HEADLIGHTS**

If it is an option the cab shall be equipped with LED high and low beam head lamps.

### **CAB USB CHARGING PORT**

A dual USB charging port for cell phones, portable chargers, and similar devices shall be installed in the cab.

### **MASTER BATTERY SYSTEM SWITCH**

The battery system shall be supplied with the chassis. One (1) battery disconnect switch shall be in a conveniently accessible location to the driver of the apparatus. The switch shall disconnect the 12-volt power supply from the battery system.

### **BATTERY CHARGER WITH DISPLAY**

One (1) Kussmaul battery conditioner with auto eject shall be installed. The charger unit shall be mounted in a clean dry area and will be accessible for service and/or maintenance. It shall be of adequate size and capacity to handle all probable uses.

One (1) Kussmaul voltage display shall be supplied with the charger.

### **SHORELINE POWER**

The shore power plug shall be auto-ejecting and conveniently located near the drivers' door on the exterior of the apparatus. The cover shall be red.

### **120-VOLT POWER RECEPTICALS**

There shall be 120-volt power receptacles furnished in the cab. The power receptacle shall be connected to the shoreline power for charging of future equipment.

### **AIR SHORELINE**

One (1) Kussmaul automatic air eject shall be provided for connection to an external air source to maintain the pressure in the chassis air brake system. Inlet shall be located near the shore power plug and be auto-ejecting. The cover shall be black

### **AIR HORNS**

Two (2) stutter tone chrome-plated air horns shall be mounted above the front fenders. An air protection valve shall be provided in the air horn piping that will not allow the chassis air brake system to drop below 90 PSI.

One (1) roof mounted pull cord shall be installed to activate the air horn system. The pull cord shall be installed within easy reach of the officer.

One (1) rocker switch shall be installed on the driver's switch panel to allow control of either the electric horn or the air horn from the steering wheel horn button.

### **DATA & WARNING LABELS**

A highly visible label indicating the overall height, length, and weight of the vehicle shall be installed in the cab area.

### **12 VOLT POWER SOURCE**

One (1) 12-volt power and ground connection shall be provided on the apparatus for the installation of one, mobile two-way radio. This source shall be wired with constant power. The location shall be determined by the customer.

One (1) 12-volt power source shall be run through the chassis master battery switch and shall be deactivated when the master switch is in the "OFF" position. The location shall be determined by the customer.

### **RADIO ANTENNA BASE**

One (1) radio antenna base shall be supplied and installed on the apparatus, the antenna coax terminating in the cab. The location shall be determined by the customer.

### **MOBILE RADIOS**

One (1) mobile radio will be provided by the customer to the manufacturer for installation. The radio head shall be installed and operational. The location shall be determined by the customer.

### **BACK-UP ALARM**

One (1) automatic electric back-up alarm shall be wired to the back-up light circuit and mounted under the rear of the apparatus body.

### **REAR FACING CAMERA & DIGITAL MONITOR**

One (1) camera with one (1) digital monitor shall be installed to provide rear facing view from the apparatus. The camera and monitor should activate automatically when vehicle is placed into reverse driving mode. The camera and monitor shall be able to be manually activated by the driver. The monitor shall be installed in the cab in such a location as to be easily viewable by the driver.

### **HAND LIGHTS**

Portable hand lights will be supplied and installed by the customer prior to the vehicle being placed into service.

### **MARKER LIGHTS**

LED marker lights shall be installed on the vehicle in conformance to the Department of Transportation requirements.

### **TAIL LIGHTS**

One (1) pair of Whelen M6 tail/brake lights shall be provided.

### **TURN SIGNALS**

One (1) pair of Whelen M6 LED turn signals with populated sequential chevron arrow shall be provided.

### **BACKUP LIGHTS**

One (1) pair of Whelen M6 LED Backup lights shall be installed on the rear of the apparatus body.

### **GROUND LIGHTS**

There shall be ground lighting in compliance with NFPA. Ground lights shall be H20 high output LED light strips. All lights shall use the same model – (under cab, doors, chassis, body, tailboard, etc.) Lighting shall be wired into the parking brake.

### **DECK LIGHTS**

The deck lights shall be LED and installed in the hose bed. Lighting shall be wired into the parking brake.

### **SCENE LIGHT**

Six (6) Whelen M9 V Series warning and scene super LED (M9V2R) lights shall be surface mounted with black flanges.

One (1) FRC CLA100-A49 brow mounted light bar with marker lights and black housing.

### **SCENE LIGHT LOCATION**

- Front – (CLA100-A49) Mount in between cab roof and lightbar
- Drivers Side – (M9V2R) Front and Back of the body near the top
- Officer Side - (M9V2R) Front and Back of the body near the top
- Rear – (M9V2R) Left and Right side near the top

### **SCENE LIGHT SWITCHING**

Scene Lights shall be controlled with Four (4) separate switches labeled as follows:

- “FRONT SCENE” – operates the front brow light
- “DRIVERS SCENE” – operates the two (2) driver side scene lights
- “OFFICER SCENE” – Operates the two (2) officer side scene lights
- “REAR SCENE” – Operates the two (2) rear lights. Rear scene lights shall activate while apparatus is in reverse.

### **DOOR OPEN LIGHT**

One (1) red flashing, warning light shall be provided and installed in the driver's compartment to indicate an open passenger or apparatus compartment door. The warning light shall also activate when folding equipment racks are not in a stowed position.

### **SIREN CONTROL**

One (1) Whelen siren controller must be installed. The rear arrow will be controlled by this siren control as well. Mounting location to be determined by customer.

### **ELECTRIC SIREN SPEAKER**

One (1) recessed 100 – watt speaker shall be installed which performs at least to the minimum specifications for electronic sirens on fire trucks in the NFPA. One (1) stainless steel grille shall be provided and installed over the speaker. The speaker shall be installed flush mount in the front bumper.

### **EMERGENCY LIGHTS**

Emergency lighting must meet NFPA standards. Preferred lighting is:

- Whelen combination warning and scene lights:
  - Drivers Side – Front and Back of the body near the top
  - Officer Side - Front and Back of the body near the top
  - Rear – Left and Right side near the top
- Whelen Ultra Freedom IV 60" light bar
  - (2) red Linear Super LED corner modules
  - (2) red Linear Super LED endcap lights
  - (4) red Linear Super LED lights
  - (2) white Linear Super LED lights w/clear lenses
- Lower emergency lights shall be Whelen M6 – RED w/ black flanges
- Body mounted emergency lights shall be red in color and placed in accordance with NFPA requirements.

### **EMERGENCY LIGHT ACTIVATION**

A rocker style internally lighted switch shall be provided and wired through a heavy-duty relay to activate power to the emergency lights. The emergency lights shall be activated by a single "MASTER SWITCH" on the electrical console. Emergency lights shall also be controlled by individual switches.

### **TOW HOOKS**

Two (2) tow eyes shall be installed below the front bumper and be bolted directly to the frame.

Two (2) tow eyes shall be installed to the rear of the apparatus, properly attached the frame.

### **SINGLE STAGE WATER PUMP**

One (1) 1000 GPM PTO single stage fire pump shall be provided and installed. The pump shall meet NFPA 1901 requirements.

### **PUMP DRIVE**

Fire pump shall be powered by an engine-driven PTO.

### **PUMP SEAL**

The pump shall have a high quality, self-adjusting, maintenance free mechanical seal.

### **PTO PUMP SHIFT SPECIFICATIONS**

An rocker switch for PTO pump engagement shall be installed in the cab driver's area. The pump shift system shall permit "pump and roll" operations, as well as stationary pumping operations.

The following indicator lights shall be included with pump shift:

1. A light shall indicate pump PTO has successfully been engaged.
2. A light shall indicate the PTO is engaged and parking brake is activated. Pump control is through the pressure governor.
3. A light shall indicate the PTO is engaged and parking brake is released. Pump control is through the driver's throttle pedal.
4. Pump shift and interlocks shall comply with applicable sections of the NFPA standards.
5. An instruction label and nameplate shall be provided to indicate proper pump engagement instructions.

### **IN-CAB PUMP AND ROLL DISCHARGE PRESSURE GAUGE**

One (1) 2-1/2" diameter discharge pressure gauges (0-400 PSI) shall be provided. The gauge shall be in the cab for use during pump and roll operations.

### **TRIDENT AIR PRIMER**

A Trident air-operated priming system shall be installed.

The primer control shall have a manually operated, panel mounted "push to prime" air valve; which will direct air pressure from the air brake storage tank to the primer body.

### **PRESSURE GOVERNOR AND ENGINE-PUMP MONITORING**

One (1) PumpBoss series pressure governor and monitoring display kit shall be installed.

### **PUMP ANODES**

Fire pump alloy anodes shall be installed to reduce corrosion. The anode shall be a bolt-in or screw-in type and easily replaceable.

### **FIRE PUMP MASTER DRAIN**

The fire pump system shall be piped to a single master pump drain assembly.

### **ADDITIONAL LOW POINT DRAINS**

The plumbing system shall be equipped with additional low point manually operated drain valves to allow total draining of the fire pump plumbing system. These valves shall be accessible from the side of the vehicle and labeled.

### **TANK TO PUMP LINE**

One (1) 4" water tank to fire pump line shall be provided with a full flow 4" valve and 4" piping. The tank to pump line shall be equipped with a check valve to prevent pressurization of the water tank.

The line shall be flow tested during the fire pump testing and shall meet applicable requirements of NFPA standards.

The tank to pump valve shall be controlled at the pump operator's panel with a 4" handwheel gear operated valve.

### **TANK FILL LINE**

One (1) 3" fire pump to water tank refill shall be provided. The valve shall be a full flow 3" quarter turn ball valve and 3" piping.

The tank fill valve shall be controlled at the pump operator's panel with a manual push/pull type valve.

### **INTAKE RELIEF/DUMP VALVE**

One (1) 2-1/2" intake relief/dump valve preset at 150 psi shall be permanently installed on the suction side of the fire pump. The valve shall have an adjustment range of 75 psi to 250 psi, and shall be designed to automatically self-restore to a non-relieving position when excessive pressure is no longer present.

### **CHASSIS ENGINE HEAT EXCHANGER COOLING SYSTEM**

The apparatus shall be equipped with a heat exchanger for supplementary chassis engine cooling during fire pump operations.

### **2-1/2" DISCHARGE - OFFICER SIDE PUMP PANEL**

One (1) 2-1/2" discharge shall be installed on the officer side pump panel area and shall be controlled by a quarter turn ball valve.

The 2 1/2" valve shall be controlled at the pump operator's panel with a manual push/pull type valve.

### **4" DISCHARGE- DRIVER SIDE CABINET**

One (1) 4" discharge shall be installed inside the driver side forward most cabinet and shall be controlled by a valve.

The 4" valve shall be controlled at the pump operator's panel with a manual gear-operated handwheel valve.

### **SIDE MOUNT PUMP ENCLOSURE**

The following controls and equipment, as specified in the specifications, shall be provided on the pump panel or within the pump enclosure:

- Primer control.
- Pump and plumbing area service lights.
- Pressure control device and throttle control.
- Fire pump and engine instruments.
- Pump intakes and discharge controls.
- Master intake and discharge gauges.
- Tank fill control.
- Tank suction control.
- Water tank level gauge.
- Pump panel lights.

### **REMOVABLE ACCESS PANELS**

The pump panel shall have removable access panels to allow for maintenance and servicing of the pump.

### **MASTER GAUGE ASSEMBLY**

One (1) master pressure gauge, liquid filled, 0- 400 PSI and one (1) master vacuum gauge liquid filled -30 – 400 PSI shall be installed.

### **TEST TAPS**

Test taps for pump intake and pump pressure shall be provided on the pump panel and be properly labeled.

### **WATER LEVEL DISPLAY**

One (1) Water tank level display shall be installed on the operator's pump panel

One (1) Water tank level display shall be installed in the cab that is easily distinguishable at a glance.

### **EXTERIOR WATER LEVEL LIGHTS**

Three (3) Whelen Strip-Lite Plus XL (PSTAK2) series "tank light model" (or equivalent) shall be installed. Two shall be surface mounted on the driver's and officer's side of the body near the front-top corner and one on the rear to indicate the water level in the tank.



### **WATER TANK - 3000 GALLON**

The apparatus shall be equipped with a 3000-gallon (2498 Imperial Gallons, 11356 Liters) T-shaped poly water tank with an appropriately sized fill tower.

The intention is to make the water tank low and wide to achieve a lower center-of-gravity.

### **DIRECT TANK FILL**

There shall be two direct tank fills on the rear of the body. One large diameter:

One (1) 4.0" diameter direct tank fill inlet shall be provided on the rear of the body (officer side). The inlet shall have a 4.0" diameter, manual, slow-close gear operated valve. The fill line shall have an in-tank slow fill safety protection system to protect the tank during filling in high flow conditions.

- One (1) 25° or 30° elbow shall be included on this inlet.
- One (1) 4" to 5" Storz adapter with Siamese clapper valve to (2) 2.5" inlet fills.

### **QUICK DUMP - REAR**

One (1) 10" square quick dump shall be provided and externally mounted. The location shall be at the center-rear of the apparatus.

One (1) manual operated lever control shall be used to open and close the rear dump valve.

One (1) swivel dump chute shall have the ability to dump water from the driver's side, the officer's side, the rear, and any point in between or (3) separate manually-operated dumps.

When the extension is in the down and extended position, it should be at least 67" long. There shall be no less than 33" of clearance from level ground to the bottom of the dump to ensure that there is enough clearance for the swivel dump to offload into all portable drop tanks.

The dump shall meet NFPA requirements for water delivery on three sides of the vehicle.

### **HOSE BED**

The hose bed shall cover the top of the entire tank. The hose bed shall be properly reinforced to allow for equipment mounts and foot traffic.

The floor shall be constructed of aluminum nonslip planking/grating.

Two (2) full-length adjustable hose bed dividers shall be installed for future equipment and hose storage.

### **FRAME/SUBFRAME**

The apparatus frame/subframe shall be constructed of metals that will not allow future rust, corrosion, or failure. Manufacturers will provide explanation of their process and how these issues are prevented.

### **TANDEM AXLE WHEEL AREA**

The wheel well area shall fully protect the body from road debris and salt. To aid in cleaning, a wheel well liner shall be provided with a finished, smooth surface to prevent corrosion.

### **FENDERETTES**

A polished aluminum or stainless-steel fenderette shall be furnished at each rear wheel well opening.

### **COMPARTMENTS**

There shall be compartment(s) located on the driver's side forward of the rear wheels and the officer side forward of the rear wheels. There will be one (1) large or two (2) smaller compartments (depending on final length of the body).

Compartments shall be aluminum with lightly oscillated finish.

### **COMPARTMENT LIGHTING**

Compartment shall be furnished with LED strip lights to provide sufficient lighting inside each cabinet.

### **ROLL UP DOOR CONSTRUCTION**

The compartment doors shall be of roll-up style.

### **REAR STEP PLATFORM**

The rear step platform shall protrude approximately 24" from the rear of the truck. The outer corners shall be mitered at a 45° angle approximately 12" from the corners. The rear step shall be heavy-duty and be roughly 4" - 5" from bottom to top surface.

### **REAR HOSE TRAY**

Mounted to the top of the rear step platform, shall be a hose tray designed to store 50 feet of 3" hose with a preconnected gated hydrant adapter. The hose will be preconnected to the (2) 2.5" Storz Siamese Clapper direct tank fill.

### **GROUND LADDER STORAGE IN HOSE BED**

One (1) ground ladder, that will be supplied by the customer, will be stored on the driver side body panel area.

One (1) quick access securing device shall be installed on the ladder to secure it from falling off the truck.

### **REAR FOLDING STEPS**

Six (6) folding steps shall be installed on the rear of the apparatus. There shall be three folding steps on each the right and left sides. Steps allow personnel to access to the hose bed. Steps shall meet NFPA requirements and have appropriate LED step lighting.

### **REAR STEP HANDRAILS**

Handrails shall be located appropriately by each set of steps.

The handrails shall be mounted above the rear tail lights and extend to the top of the body.

### **APPARATUS RUB RAILS**

Full body length polished aluminum or stainless-steel rub rails shall be installed on the lower portion of the body sides.

### **PAINT**

The preferred primary/lower paint color shall match the same red as the chassis.

### **TOUCH UP PAINT**

Touch-up paint shall be furnished with the completed truck at final delivery.

### **INTERIOR COMPARTMENT FINISH**

Interior compartment finish shall be unpainted aluminum with a lightly oscillated finish.

### **UNDERCOATING**

The entire underside of the apparatus body and chassis shall have undercoating applied to it. Surfaces shall be cleaned and properly prepared for application of a sprayed on automotive type undercoating.

### **REAR CHEVRON**

There shall be chevron installed on the rear of the apparatus. The chevron must be highly reflective “Diamond Grade” and the colors must alternate between fluorescent black and red.

### **FRONT BUMPER CHEVRON**

There shall be chevron installed on the face of the front bumper. The chevron must be high quality reflective and the colors must alternate between black and red.

### **LOOSE EQUIPMENT**

Two (2) standard non-collapsible wheel chocks shall be furnished and placed in a cabinet.

Two (2) 6” x 10’ hard suction hoses

### **NFPA STORAGE**

The SCBAs, and helmets will be stored in body compartments.

### **ALTERNATES:**

We ask that you submit proposals for the main RFP, but we are also interested in alternatives. The committee will complete a cost-benefit analysis of the following alternates, and they will be considered.

*We understand that this change may also result in some minor plumbing alterations. Explain what those changes are.*

*Please note any other changes that must be made to the specifications in this document for the alteration.*