

Fouts Fire



QUICK ATTACK UNIT

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Fouts Fire

SCOPE AND GENERAL REQUIREMENTS

It is the intent of the manufacturer to provide a new fire apparatus that will withstand the continuous use encountered in the emergency fire fighting service. The apparatus shall be of the latest type, symmetrically proportioned and constructed with due consideration of the load to be sustained.

All parts not specifically mentioned herein, but which are necessary in order to furnish a complete fire apparatus, shall be furnished and shall conform to the best practices known to the fire apparatus industry.

The unit is to be of current year manufacture, and is to be new and unused. The bid price shall not include any local, State, or Federal taxes. The Bidder shall not be liable for any State or Federally mandated tax or program after the sale of this apparatus.

These specifications shall be construed as minimum. Should the manufacturer's current published data or specifications exceed these, they shall be considered minimum and be furnished.

PRIME BIDDER, MANUFACTURER

The manufacturer shall be prime bidder and shall identify the location of their facility.

BIDDERS BACKGROUND

Bids are requested from responsible manufacturers who are engaged in the manufacture of fire apparatus. To insure reliable and complete acceptance of the apparatus, bidder shall have been in operation for a minimum of thirty (30) years in the manufacturing of fire apparatus.

The manufacturer of the apparatus must be fully owned and managed by a Parent Company, Corporation, or Individual(s) that is 100% held by United States of America based Company, Corporation, or United States citizen(s).

Proposals from any manufacturer that is fully or partially owned and/or operated by a foreign company, Corporation or Individual(s) under any type of ownership, partnership, or any similar type of agreement will be immediately rejected.

If the manufacturer of the apparatus, or if any owner, shareholder, or immediate relative of an owner or shareholder that has previously been involved in or held ownership in any company that has filed bankruptcy or any other type of reorganization plan, it must be clearly stated in the bid proposal. The statement must include details and dates of all occurrences.

FAMA COMPLIANCE

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The apparatus manufacturer must be a current member of the Fire Apparatus Manufacturer's Association (FAMA) and must provide certificate of membership.

FAIR, ETHICAL AND LEGAL COMPETITION

In order to ensure fair, ethical, and legal competition the apparatus manufacturer shall have ever been fined or convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market.

PROPRIETARY PARTS

It is the intention of the purchaser for all bidders to furnish the apparatus with major parts commonly used by the heavy-duty truck manufacturers and open market vendors whereas replacement parts are more readily available and at reduced cost. The use of proprietary parts may not be acceptable to the purchaser.

MANUFACTURER'S DISCRETION

Materials, parts, or procedures used are subject to change at manufacturer's discretion at any time to provide equal or better products.

MANUFACTURING LOCATION

The apparatus shall be manufactured in La Grange, Texas.

PRODUCT QUALITY AND WORKMANSHIP

The components provided and workmanship performed shall be of the highest quality available for this application. Special consideration shall be given to the following areas:

- A). Accessibility to various components that require periodic maintenance or lubrication checks.
- B). Ease of vehicle and pump operation.
- C). Features beneficial to the intended operation of the apparatus.

Construction of the complete apparatus shall be designed to carry the loads intended to meet the road and terrain conditions and speed requirements desired when specified by the purchaser.

Welding shall not be employed in the assembly of the apparatus in a manner that will prevent the removal of any major component part for service and/or repair.

INSURANCE REQUIREMENTS

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Each bidder must submit with their bid proposal a Certificate of Insurance listing the proposed manufacturer's product liability insurance coverage. Liability insurance shall be a minimum amount of ten (10) million dollars. Submitted certificate shall name the apparatus manufacturer, insurance company, policy number, and effective dates of the insurance policy. Bids submitted without the required certificate will be considered non responsive and automatically rejected. No exceptions are allowed to the minimum insurance coverage requirement.

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 (No Exceptions). Purchaser reserves the right to require proof of insurance from the manufacturer's insurance carrier prior to entering into a contract for the apparatus.

PAYMENT TERMS

Full payment for the apparatus shall be made at time of delivery of the completed vehicle. Due to insurance liability, the apparatus will not be left at the purchaser's location without full acceptance and payment or prior agreement between the Purchaser and Bidder.

Final delivery price shall not include any Local, State or Federal taxes. The manufacturer shall not be liable for any State or Federal mandated tax or program after sale or delivery of the apparatus.

VEHICLE ACCEPTANCE AND DELIVERY

The customer shall pickup the vehicle at the manufacturing facility and shall supply evidence of sufficient insurance coverage to transport the vehicle.

FUEL TANK FILLED AT DELIVERY

The fuel tank and DEF tank (if applicable) shall be filled upon final delivery at the factory.

APPARATUS DIMENSIONS

These are standard truck dimensions. Changes in configuration or additional options may affect these dimensions. The contract specification shall contain the exact dimensions.

OVERALL HEIGHT

The overall height shall be less than 96.00".

OVERALL LENGTH

The overall length shall be no longer than 26.00'.

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OVERALL WIDTH

The overall width of the body shall be 96.00" wide; chassis mirrors will extend out past this width.

ANGLE OF APPROACH

The angle of approach for the apparatus shall not be less than eight (8) degrees as specified by the current edition of NFPA 1900.

ANGLE OF DEPARTURE

The angle of departure for the apparatus shall not be less than eight (8) degrees as specified by the current edition of NFPA 1900.

COMPLIANCE

The fire apparatus shall be built to the purchaser's requirements in compliance to all State, Local, and Federal highway safety requirements. The vehicle is not intended to meet any or all standards of the NFPA 1900 requirements.

CAB SAFETY SIGNS

The following safety signs shall be provided in the cab:

- One (1) FAMA 10 sign shall be visible to the driver. "Flying Object Crash Hazard. All equipment required to be used in emergency response must be securely fastened. Loose items may injure or kill during a crash."
- One (1) FAMA 07 sign shall be visible from each seat. "Crash Hazard. Occupants must be seated and belted when vehicle is in motion. Use only OEM approved belts. Unbelted occupants
- One (1) FAMA 15 sign shall be visible from each seat. "Crash Hazard. Do not wear helmet while seated. Serious head or neck injury may result from helmet use in cab. Failure to comply may injure or kill."
- One (1) FAMA 17 sign shall be visible to the driver. "Backing Hazard. Ensure that personnel are clear before driving in reverse. Always use a spotter when backing. Failure to comply may injure or kill."

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- One (1) FAMA 42 sign shall be inside of the driver door. "Sirens produce loud sounds that may damage hearing. Roll up windows. Wear hearing protection. Use only for emergency response. Avoid exposure to siren sound outside of vehicle."
- "Do Not Move Apparatus When Light Is On" sign adjacent to the warning light indicating a hazard if the apparatus is moved (as described in subsequent section).

"NO RIDE" LABEL

A label shall be located on the vehicle at the rear step areas, and at any cross walkways, if they exist. The label(s) shall warn personnel that riding in or on these areas while the vehicle is in motion is prohibited.

CHASSIS DATA LABELS

The following information shall be on labels affixed to the vehicle:

Fluid Data:

- Engine oil
- Engine coolant
- Chassis transmission fluid
- Pump transmission lubrication fluid (if applicable)
- Pump primer fluid (if applicable)
- Drive axle(s) lubrication fluid
- Air conditioning refrigerant
- Air conditioning lubrication
- Power steering fluid
- Cab tilt mechanism fluid (if applicable)
- Transfer case fluid (if applicable)
- Equipment rack fluid (if applicable)
- Air compressor system lubricant
- Generator system lubricant (if applicable)

Chassis Data:

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

Location shall be in the driver's compartment of the chassis cab.

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OVERALL HEIGHT, LENGTH, GVW DATA PLAQUE

A "high visibility" plate shall be permanently mounted in the cab, visible to driver when seated.

The plate shall show the overall height of the completed apparatus in feet and inches, the overall length of the completed apparatus in feet and inches.

The plate shall also show the gross vehicle weight rating (GVWR) in tons.

Text shall also be supplied on the plate, indicating that the information shown is current upon completion of the apparatus. If the overall height of the apparatus changes after the apparatus is put into service, then the purchaser must revise the dimensions on the plate.

COMMERCIAL CHASSIS SPECIFICATION

CHASSIS PROVIDER

The chassis, shall be ordered and supplied by the purchaser

CHASSIS MODIFICATIONS

The following modifications and installations shall be performed on the chassis upon delivery to the apparatus manufacturer:

RUNNING BOARDS

One (1) set of DeeZee Rough Step running boards shall be mounted to each side of the chassis. The running boards shall be constructed of heavy duty aluminum and have a black powder coated finish.

FRONT BUMPER REPLACEMENT, RANCH - HAND

The stock front bumper shall be removed and replaced by the apparatus manufacturer with a Ranch Hand Sport Series model # FBF235BLR. The bumper shall have an integrated 2.00" receiver hitch, and winch mount rated for 16,500 straight line pull.

MULTI-MOUNT WINCH

A Warn model Zeon 10 Platinum multi-mount electric winch with a 10,000 pound rated line pull shall be provided to mount in the specified winch receivers. The winch shall have a wireless controller and shall be equipped with 80' of 3/8" diameter wire rope, including hook. A roller style fairlead shall be provided at the winch opening.

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MULTI-MOUNT WINCH CARRIER

A Warn universal multi-mount winch carrier for a 2.00" receiver shall be supplied.

FRONT WINCH CONNECTION

A 12V electrical connection with a quick disconnect compatible with the portable winch shall be provided adjacent to the receiver point. A plastic end cap shall be provided for the quick disconnect.

TOWING HITCH RECEIVER

A trailer towing hitch receiver with safety chain anchors shall be installed at the rear of the apparatus.

The hitch receiver shall be constructed of heavy steel tubing and reinforced to the apparatus framework. The hitch receiver shall have a Class V rating of 16,000 pounds towing and 1,600 pounds tongue weight when used with a weight distributing hitch assembly.

The receiver shall accept a 2.00" hitch.

One (1) 7-prong connector with a weatherproof cover shall be supplied and mounted near the rear receiver tube.

REAR WINCH CONNECTION

A 12V electrical connection with a quick disconnect compatible with the portable winch shall be provided adjacent to the receiver point. A plastic end cap shall be provided for the quick disconnect.

RECEIVER COVER

A 2.00" black rubber receiver hitch cover shall be provided.

CHASSIS EXHAUST EXTENSION - RIGHT HAND SIDE

The chassis exhaust shall be modified and relocated to the right side of the apparatus, and will terminate behind of the rear wheel.

REAR MUD FLAPS

A pair of black rubber mud flaps, with the manufacturer's logo, shall be provided and installed behind the rear wheels.

CENTER CONSOLE

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A custom Plastix Plus center console shall be located between the driver's and passenger's seats. It shall house the siren, switches, cup holders, and auxiliary equipment.

SEATING MODIFICATION

The center portion of the 40/20/40 split bench seat shall be removed to accommodate the installation of the specified console.

BATTERY SWITCH

The chassis ignition key shall activate a heavy duty relay to provide 12 volt battery power to the vehicle.

BATTERY SOLENOID

Battery switch shall consist of a minimum 200 ampere, constant duty solenoid to feed from positive side of battery.

MASTER BATTERY INDICATOR

A green "Master Battery" LED pilot light shall be visible from the driver's position.

BATTERY CONDITIONER

A Kussmaul Chief Series Auto Charge 4012 battery charger with onboard display shall be supplied. The battery conditioner shall provide a 40 amp output for the chassis batteries and a 20 amp output circuit for accessory loads.

BATTERY CHARGER LOCATION

The battery charger shall be located in a pre-determined location by the manufacturer.

120 VOLT SHORELINE CONNECTION - "SUPER" AUTO EJECT

One (1) Kussmaul "Super" Auto Eject model 091-55-20-120, automatic, 120 volt, 20 amp shoreline disconnect shall be provided for the on board, 120 volt battery charging systems.

AUTO-EJECT MATING PLUG

A 5-20P, 20 amp mating female cord end shall be shipped loose with the apparatus to allow the Fire Department to connect cord end to a Fire Department provided charging cord.

BATTERY CHARGER DISPLAY/ COVER

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One (1) Kussmaul model 091-55-266-YW battery charger status center/ auto eject cover shall be supplied with the charger.

The cover shall be yellow in color.

SHORELINE RECEPTACLE LOCATION

The shoreline receptacle shall be located on the left hand side of the apparatus in a pre-determined location by the manufacturer.

BACK-UP ALARM

One (1) 97 DB back up alarm shall be provided and installed at the rear of the unit. It shall be wired to activate when the transmission is placed in reverse.

REAR PUMP "DROP IN"

The pump shall be mounted at the apparatus rear, mounted in the open rear cavity of the body.

ELECTRIC START WIRING TO CHASSIS

The 12 volt positive and negative cables shall be provided from the chassis battery to the fire pump area, wired through the master disconnect solenoid system.

PORTABLE PUMP

A HALE model HPX300-B18 portable pump shall be furnished and installed.

It shall be a single stage centrifugal pump, bolted directly to the engine, with a 3.00" FNPT suction inlet, and a 3.00" FNPT discharge outlet.

PUMP

The pump body shall be made of alloy aluminum castings coupled together with a stainless steel band clamp with an O-ring seal which allows quick pump volute removal for servicing. The pump end shall be factory hydrostatically tested to 250 PSI for 10 minutes. The impeller shall be bronze. The renewable clearance rings shall be made of anodic plated bronze to inhibit galvanic corrosion. The impeller shall be 8.75 inches in diameter and designed with a sleeve back end to prevent water from coming in contact with the engine shaft. The pump shaft seal shall be an automatically adjusting, maintenance free, mechanical type. The pump body shall be equipped with a petcock drain valve.

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Typical pump performance from 5 foot draft at sea level shall be: 150 GPM @ 100 PSI, 250 GPM @ 75 PSI, and 380 GPM @ 25 PSI.

ENGINE

The engine shall be a 4 cycle gasoline Briggs and Stratton Vanguard series 350400 V Twin, overhead valve, air cooled design. Engine rating shall be 18 BHP at 4000 rpm with a torque of 30 lb-ft at 2600 rpm. Engine displacement shall be 570cc and shall be designed to meet 1994 CARB (California Air Resources Board) standards. A 12-volt electric system shall be provided with electric starter and a 16 amp alternator. Recoil backup engine starting shall be provided. Engine shall be equipped with a residential muffler with USDA approved spark arrestor.

THREE YEAR FIRE PUMP WARRANTY

A three (3) year warranty for the Hale fire pump shall be provided.

PUMP ENGINE OIL DRAIN

The fire pump engine shall have an oil drain line installed. It shall allow for easy oil draining.

PUMP ENGINE FUEL SOURCE

The pump fuel system shall be connected to the chassis fuel tank via an auxiliary fuel pump and tap.

EXHAUST SYSTEM

The pump engine shall have a vertical exhaust pipe. The exhaust pipe shall be directed upward and away from the pump operator. An additional guard or wrapping around the exhaust pipe shall be installed where the pipe is exposed to touch by an operator.

PRIMER- EXHAUST

The pump shall be equipped with an exhaust venturi primer of brass and stainless steel construction. The primer shall be capable of priming at 13' lift. The primer shall be actuated with a spring return, single control lever located at the operator's panel. The primer to pump line shall be equipped with an automatic check valve for priming from an open body of water and a manual shut-off for pumping from a pressurized water source.

INSTRUMENTATION

The pump shall be supplied with a remote mounted control panel. This panel shall include a throttle lever, primer lever, master switch, starter button, choke control, and an oil pressure warning light.

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PRESSURE GAUGE

One (1) 2.50" Class1 discharge pressure gauge shall be provided.

WATER LEVEL GAUGE

One (1) Fire Research **Tank Vision Pro 300** water tank level gauge shall be installed on the apparatus. The gauge shall have an LED display, which flashes when the tank level reaches 25% of capacity. A built in calibration system shall allow a bottom tank mounted transducer to be mounted with any tank configuration.

Location of water tank indicator shall be: Rear control panel.

CLASS A FOAM TANK INDICATOR

One (1) Fire Research TankVision Pro model WLA360-A00 tank indicator kit shall be installed. The kit shall include an electronic indicator module, a pressure sensor, a 10' sensor cable and a tank vent. The indicator shall show the volume of Class A foam concentrate in the tank on nine (9) easy to see super bright RGB LEDs. A wide view lens over the LEDs shall provide for a viewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of Polycarbonate/Nylon material, and have a distinctive green label.

The program features shall be accessed from the front of the indicator module. The program shall support self-diagnostics capabilities, self-calibration, six (6) programmable colored light patterns to display tank volume, adjustable brightness control levels and a datalink to connect remote indicators. Low water warnings shall include flashing LEDs at 1/4 tank, down chasing LEDs when the tank is almost empty, and an output for an audio alarm.

The indicator shall receive an input signal from an electronic pressure sensor. The sensor shall be mounted from the outside of the foam tank near the bottom. No probe shall be placed on the interior of the tank. Wiring shall be weather resistant and have automotive type plug-in connectors.

PLUMBING SYSTEM

The plumbing system shall consist of stainless steel hard piping, or flexible high pressure hose with stainless steel ends, as deemed necessary for the application. Upon completion, the entire system shall be fully pressure tested.

The stainless steel plumbing shall remain unpainted.

HOSE THREADS

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All hose threads shall be NST on all base threads on the apparatus intake and discharges, unless otherwise specified.

LABELS

All controls, inlets, and discharges shall be clearly labeled. The labels shall comply with applicable NFPA standards.

SUCTION PIPING

All piping on the suction side shall be made of stainless steel.

The suction piping shall consist of a 2.50" tank to pump line with a 2.50" flexible rubber hump hose to minimize flex and vibration between the pump and the tank.

Between the tank and the pump there shall be an Akron Brass 2.50" model 8825 valve. This valve shall remain open to pump from the tank.

This pipe shall have a tee into the suction side of the pump and shall continue to the rear of the truck for overboard suction where there shall be an additional Akron Brass 2.50" model 8825 valve.

To draft, the tank to pump valve shall be closed, a suction hose connected to the overboard suction connection and placed in a static water supply, and the primer activated.

INTAKE ADAPTER

The valve inlet shall be supplied with a 2.50" chrome swivel with FNST rocker lug threads. A screen shall be installed in the intake to prevent debris from entering the pump.

PLUG

One (1) 2.50" chrome plated plug shall be provided. The threads shall be NST and the plug shall be equipped rocker lugs and chain.

TANK REFILL

There shall be one (1) 1.00" tank fill/ re-circulating line provided between the pump and the water tank. It shall be plumbed with a 1.00" valve and flexible, reinforced wire-braid, hydraulic hose.

TANK REFILL VALVE

An Akron Brass 1.00" model 8810 swingout valve shall be provided, and shall be controlled by an Akron Brass model TS manual actuator installed on the valve.

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REAR DISCHARGE

One (1) 2.50" discharge outlet with 2.50" pipe and inline valve shall be supplied. the discharge shall be directed towards the rear of the unit.

An Akron Brass 2.50" model 8825 swingout valve shall be provided, and shall be controlled by an Akron Brass model TS manual actuator installed on the valve.

DISCHARGE ADAPTER

A rigid 2.50" MNST outlet shall be provided for the discharge.

ADAPTER

One (1) Trident model 01.008.0 chrome plated adapter shall be provided. The adapter shall be configured with a 2.50" FNST rigid rocker lug and a 1.50" MNST rigid threads.

CAP

One (1) 1.50" Rocker Lug, Chrome Cap w/ chain shall be supplied with the discharge

SPEEDLAY DISCHARGE

There shall be one (1) 1.50" discharge outlet piped to the transverse compartment for a speedlay.

An Akron Brass 1.50" model 8815 swingout valve shall be provided, and shall be controlled by an Akron Brass model TS manual actuator installed on the valve.

DISCHARGE ADAPTER

The pre-connected discharge shall terminate with a chicksan swivel adapter with 1.50" MNST threads.

HOSE REEL VALVE

One booster reel discharge shall be provided. The discharge shall be plumbed to the reel with a 1.00" valve and flexible, reinforced wire-braid, hydraulic hose.

BOOSTER REEL VALVE

An Akron Brass 1.00" model 8810 swingout valve shall be provided, and shall be controlled by an Akron Brass model TS manual actuator installed on the valve.

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BOOSTER HOSE REEL

One (1) HANNAY model EF4138-17-18 painted steel booster reel with electric rewind shall be supplied and mounted. The reel shall be capable of holding 100.00' of 1.00" booster hose, and 200.00' of 0.75" booster hose.

HOSE REEL PAINTING

The hose reel(s) shall be painted graphite.

ROLLER ASSEMBLY

One (1) 4-way, full length stainless steel capture roller assembly shall be installed near the reel.

SWITCH, REWIND BOOSTER REEL

There shall be one (1) hose reel rewind switch installed. It shall be a weather-resistant momentary push button switch and shall be located near the booster reel. The switch shall be labeled "BOOSTER REEL REWIND".

REEL LOCATION

The booster hose reel shall be mounted inside the bed area at the rear of the body above the pump.

BOOSTER REEL HOSE

The booster reel shall be supplied with 100' of 1.00" NST red rayon braided reinforced neoprene booster reel hose. The hose shall have a minimum proof test pressure of 800 PSIG.

PUMP BY-PASS / COOLING LINE

The pump shall be equipped with an automatic bypass line from the pump, returning to the water tank. This 0.25" line shall provide pump cooling when the pump is engaged and discharge water is not flowing. A check valve shall be installed in the line to allow water to flow from the pump to the tank and prevent water from feeding from the tank to the pump during priming operations.

FOAMPRO 1601 FOAM SYSTEM

The apparatus shall be equipped with an electronic, fully automatic, variable speed, direct injection, discharge side foam proportioning system. The system shall be capable of handling Class A foam concentrate. The foam proportioning operation shall be based on direct measurement of water flows, and remain consistent within the specified flows and pressures. System must be capable of

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delivering accuracy to within 3% of calibrated settings over the advertised operation range when installed according to factory standards. The system shall be equipped with a control module suitable for installation on the pump panel. Incorporated within the motor driver shall be a microprocessor that receives input from the system flowmeter, while also monitoring foam concentrate pump output, comparing values to ensure that the operator preset proportional amount of foam concentrate is injected into the discharge side of the fire pump. A paddlewheel-type flowmeter shall be installed in the discharge system specified to be "foam capable."

The control module shall enable the pump operator to:

- Activate the foam proportioning system

- Select proportioning rates from 0.1% to 1.0%

- See a "low concentrate" warning light flash when the foam tank runs low and in two minutes, if foam concentrate is not added to the tank, shut the foam concentrate pump down

A 12-volt electric motor driven positive displacement plunger pump shall be provided. The pump capacity shall be 1.7 gpm (6.4 L/min) at 200 psi (13.8 BAR) with a maximum operating pressure up to 400 psi (27.6 BAR). The system will draw a maximum of 30 amps @ 12. The motor shall be controlled by the microprocessor (mounted to the base of the pump). It shall receive signals from the control module and power the 1/3 hp (.25 Kw) electric motor in a variable speed duty cycle to ensure that the correct proportion of concentrate is injected into the water stream.

Components of the complete proportioning system as described above shall include:

- Operator control module

- Paddlewheel flowmeter

- Pump and electric motor/motor driver

- Wiring harnesses

- Low level tank switch

- Foam tank

- Foam injection check valve

- Main waterway check valve

An installation and operation manual shall be provided for the unit, along with a one-year limited warranty by the manufacturer. The system must be installed and calibrated by a Certified FoamPro Dealer.

The system design shall have passed environmental testing which simulates heavy use on off-road mobile apparatus. Testing shall have been conducted in accordance to SAE standards.

FOAM SYSTEM RATING PLACARD FOR FOAM PRO 1601 SYSTEM

There shall be a Foam Pro part number 6032-0019 foam system rating placard provided in close

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proximity to the pump operator's position as required by NFPA 1900.

FOAM SYSTEM SCHEMATIC PLACARD FOR SINGLE TANK SYSTEM

There shall be a Foam Pro part number 6032-0015 foam system layout placard provided and located in close proximity to the pump operator's position as required by NFPA 1900.

BOOSTER TANK

The tank shall have a capacity of 500 US gallons.

The water tank shall be constructed of 0.50" thick polypropylene sheet. The unit shall incorporate transverse partitions manufactured for 0.375" or 0.50" polypropylene which shall interlock with a series of longitudinal partitions constructed of 0.375" or 0.50" polypropylene. All swash partitions shall be so designed to allow for maximum water and air flow between compartments and are fully welded to each other as well as to the inside of the tank.

Tank will be baffled in accordance with NFPA bulletin 1900 requirements, latest version.

FILL TOWER

The tank shall be equipped with a combination vent/overflow and manual fill tower. The fill tower shall be an 10.00" x 10.00" by 8.00" high with a hinged cover. There shall be a vent / overflow installed inside the tower. This vent / overflow shall be constructed of polypropylene pipe with minimum ID of 3.00". The vent / overflow shall be piped internally and exit out at the tank floor with a 1.00" extension past the wall.

SUMP

The floor of the tank shall be manufactured from 0.50" polypropylene. The sump shall be integral to the tank floor and be a minimum of 0.625" deep recessed into the floor.

TANK OUTLETS

There shall be two (2) tank outlets located on the rear wall of the tank. One (1) 3.00" FNPT tank to pump suction fitting and one (1) 1.00" FNPT tank fill fitting with flow deflector.

WATER TANK SIGHT GAUGE

The water tank shall be equipped with clear water level sight gauge in the rear wall of the tank.

TANK MOUNTING BLOCKS

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The cover shall incorporate four (4) mounting blocks 4.00" wide x .050" tall. These mounting blocks shall be welded to the covers running from the rear edge of the tank forward.

FOAM TANK - 10 US GALLONS - CLASS A

A foam tank shall be installed inside the main water tank. The foam tank shall have a capacity of 10 U.S. gallons for Class A foam.

FIRE BODY & RELATED COMPONENTS

OVERALL DIMENSIONS

The body shall be 144.00" Long x 94.00" wide x 64.125" high with fender well positioned for a 84.00" cab-to-axle dual rear wheel chassis. The cargo bed floor width shall be 50.00" wide.

FLOOR AND UNDERSTRUCTURE

The compartment floor shall be a single piece design made of .1875" aluminum. The floor shall be supported by front and rear extruded 6061 aluminum alloy 2.00" x 4.00" x .250" wall structural tube crossmembers and incorporating flange style direct body mounting plates. The center section of the floor shall be supported by two (2) additional crossmembers of 2.00" x 2.00" x .250" structural aluminum tube, interlocked with three (3) longitudinal 2.00" x 2.00" x .250" sections of structural aluminum tube, connecting the front most and rearmost crossmembers. The front of the body shall be closed in with a .125" aluminum bulkhead panels the same height as the body, creating a 46.50" high cargo bed between the side compartments.

COMPARTMENT CONFIGURATION

There shall be a total of six (6) flush floor body side compartments; three (3) on each side comprised of a front vertical and rear vertical compartment, separated by a horizontal center compartment, over the wheel well. A rear access open top cargo compartment shall run the length of the body, between the side compartments.

The compartments shall be completely formed of .125" 5052-H32 aluminum alloy and shall have a tested floor area load of 300 pounds combined with a shelf load of 250 pounds.

The interior height of the compartments will be measured from the compartment floor to the ceiling. The spool of the rollup door at the top of the compartment takes up some usable space. The depth of the compartments will be measured from the back wall to the inside of the door frame.

FENDER PANELS

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A single piece wheel well panel made of .125" aluminum shall be installed with no sharp edges to cut or damage cleaning equipment used in the wheel well area. The wheel well design shall provide for maximum wheel jounce and for use of tire chains without contacting the fender panel.

TREADPLATE AND TRIM

All treadbrite overlays shall be 3003-H14 bright aluminum.

BODY FRONT WALL OVERLAY

There shall be .125" polished aluminum treadbrite provided for the entire front of the body to protect the paint from road debris and paint chipping.

COMPARTMENT TOP PROTECTION

There shall be .125" embossed aluminum treadbrite overlays provided for the apparatus side compartment tops.

REAR WHEELWELL LINERS

The rear wheelwells shall be equipped with replaceable circular liners to prevent road debris damage to adjacent side compartments. The liners shall be made from a single circular panel of .090" smooth aluminum and shall be the full depth of the side compartments. They shall be bolted in place and shall feature end flange bottom drains.

REAR BODY FENDERETTES

A roll-formed, polished stainless steel fenderette shall be installed around the outboard edge of the rear wheel well openings to protect the body sides from road debris. They shall be bolted to the body and shall be replaceable.

BODY SIDE RUB RAILS

Replaceable extruded aluminum channel rub rails, 2.00" high x 1.00" deep x 0.125" wall, shall be provided below the lower side compartments. Each rub rail shall have a black rubber bumper strip and mounting stand-off spacers. All rub rail ends shall be angle cut, back toward the body to eliminate the possibility of snagging crew clothing or equipment.

COMPARTMENT VENTS

Each body side compartment shall be properly vented in a manner that will minimize the possibility of moisture and road dirt entering the compartment. Venting shall be to atmosphere for front and rear

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side compartments. The center wheel well compartments shall be vented to the front and rear compartments.

ADJUSTABLE SHELVING TRACKS

All side body compartments be furnished with adjustable shelving track installed. The shelving track shall include a minimum of four (4) aluminum Uni-strut style channel tracks, mounted vertically on compartment side walls or vertical partitions. There shall be one (1) formed aluminum shelf angle bracket per shelving track to mount each shelf, tray, or adjustable storage module. Shelving hardware shall be heavy-duty commercial quality, providing unlimited vertical position adjustments.

ADJUSTABLE TRAYS

Adjustable trays shall be installed as directed by the purchaser. Trays shall be made of .125" smooth aluminum with a 2.00" high perimeter retaining lip with welded corners. Trays shall have a rated capacity of 300-lbs. and shall be supported by a minimum of two (2) heavy-duty shelf brackets. Trays shall have a maintenance free mill finish.

ROLL-UP DOORS

All lower compartment doors shall be equipped with AMDOR brand roll-up doors. The slats shall be 1.00" double wall aluminum with continuous ball and socket hinge joints designed to prevent water ingress and weather tight recessed dual durometer seals.

The interior door curtains shall be smooth to prevent equipment hang-ups. The door tracks and side frames shall each be one-piece aluminum. Each side seal shall be recessed, and non-marring with UV stabilizers to prevent warping.

The bottom panel flange shall have cut-outs for ease of access with gloved hands. The door strikers shall provide support beneath the lift bar to prevent door curtain bounce and potential false door ajar indications.

DOOR FINISH

The doors shall be painted the job color by the door manufacturer. (No Exception).

DOOR LOCK- KEYED, MANUAL

The door shall have a cylindrical lock installed by the roll-up door manufacturer.

The lock key type shall be: J-236

DRIP PAN W/ DRAIN

Fouts Fire

Each door shall be supplied with a drip pan for protection. A drain hose will be attached to each drip pan and shall be routed below the body.

COMPARTMENT LIGHT(S)

Two (2) full height OnScene Solutions Access LED strip light(s) shall be installed inside each of the body compartments.

The compartment lights shall be controlled by a magnetic "On-Off" switch located on each compartment door.

LEFT SIDE COMPARTMENT IN FRONT OF REAR WHEELS, L1

There shall be a full height compartment located ahead of the rear wheels on the left side of the apparatus body.

- Dimensions: 55.75" wide x 61.00" high x 21.0" deep lower, transverse upper.
- Door Opening: 48.25" wide x 48.75" high.
- Useable Depth: 19.75".

ADJUSTABLE SHELVING TRACKS

There shall be vertically mounted uni-strut shelf trac for shelving installation.

LEFT SIDE ABOVE WHEEL COMPARTMENT, L2

There shall be one (1) standard height compartment above of the rear wheels on the left side of the apparatus body.

- Dimensions: 50.00 wide x 40.125" high x 21.00" deep.
- Door Opening: 47.00" wide x 27.75" high.
- Useable Depth: 19.75".

ADJUSTABLE SHELVING TRACKS

There shall be vertically mounted uni-strut shelf trac for shelving installation.

ADJUSTABLE SHELF

There shall be One (1) full depth adjustable shelf/ shelves located in the compartment.

LEFT SIDE COMPARTMENT BEHIND REAR WHEELS, L3

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There shall be one (1) full height compartment behind of the rear wheels on the left side of the apparatus body.

- Dimensions: 35.44" wide x 61.00" high x 21.00" deep.
- Door Opening: 30.25" wide x 48.75" high.
- Useable Depth: 19.75".

ADJUSTABLE SHELVING TRACKS

There shall be vertically mounted uni-strut shelf trac for shelving installation.

ADJUSTABLE SHELF

There shall be One (1) full depth adjustable shelf/ shelves located in the compartment.

RIGHT SIDE COMPARTMENT IN FRONT OF REAR WHEELS, R1

There shall be a full height compartment located ahead of the rear wheels on the right side of the apparatus body.

- Dimensions: 55.75" wide x 61.00" high x 21.0" deep lower, transverse upper.
- Door Opening: 48.25" wide x 48.75" high.
- Useable Depth: 19.75".

ADJUSTABLE SHELVING TRACKS

There shall be vertically mounted uni-strut shelf trac for shelving installation.

RIGHT SIDE ABOVE WHEEL COMPARTMENT, R2

There shall be one (1) standard height compartment above of the rear wheels on the right side of the apparatus body.

- Dimensions: 50.00 wide x 40.125" high x 21.00" deep.
- Door Opening: 47.00" wide x 27.75" high.
- Useable Depth: 19.75".

ADJUSTABLE SHELVING TRACKS

There shall be vertically mounted uni-strut shelf trac for shelving installation.

ADJUSTABLE SHELF

Fouts Fire

There shall be One (1) full depth adjustable shelf/ shelves located in the compartment.

RIGHT SIDE COMPARTMENT BEHIND REAR WHEELS, R3

There shall be one (1) full height compartment behind of the rear wheels on the right side of the apparatus body.

- Dimensions: 35.44" wide x 61.00" high x 21.00" deep.
- Door Opening: 30.25" wide x 48.75" high.
- Useable Depth: 19.75".

ADJUSTABLE SHELVING TRACKS

There shall be vertically mounted uni-strut shelf trac for shelving installation.

ADJUSTABLE SHELF

There shall be One (1) full depth adjustable shelf/ shelves located in the compartment.

TRANSVERSE COMPARTMENT

There shall be a transverse area located in between compartments L1 and R1. It shall start approx. 14.56" above the side compartment floors.

- Dimensions: 30.75 wide x 44.43" high x 89.00" deep.
- Door Opening: 29.00" wide x 34.18" high.
- Useable Depth: 89.00".

FUEL FILL

One (1) round aluminum fuel fill shall be installed in the left hand side wheel well rear of the axle.

It shall be labeled "Unleaded Gasoline Only". The label shall be an IC curver series with a chrome bezel, black background, and white verbiage. It shall be screwed into the body directly above the fuel fill.

FOLDING STEPS- LH SIDE REAR

Three (3) Innovative Controls model 3004234-37-0-1-1-1-0 chrome plated folding steps shall be provided on the left hand side rear of the body. Each step shall have two (2) cast-in handles, that are large enough for use while wearing gloves. The step(s) shall exceed the NFPA requirements for stepping surface and slip resistance.

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STEP LIGHTS

There shall be (2) LED lights incorporated into the folding step assembly. One (1) above the stepping surface, and one (1) below the step assembly.

The step light(s) shall be wired to activate with the transmission is placed in park.

REAR PLATFORM STEP

A modular bolt-on rear platform step made of .188" embossed aluminum tread brite shall be installed on the rear of the apparatus to provide a full width step area with sufficient support to prevent deflection when in use by several crew members. The step shall protrude 10.00" back from the rear of the body and shall be spaced away from the body to allow water run-off.

REAR STEP RISER

A full width, one-piece aluminum treadplate step riser shall overlay the area at the rear of the body, between the lower edge of the cargo area floor and the top of the rear step.

EXTERIOR GRAB RAILS

Each grab rail shall be non-slip, 1.25" diameter extruded aluminum grab rails with designed to provide maximum gripping ability, strength, and durability. The rails shall comply with NFPA 1900.

GRAB RAILS, REAR STEP, VERTICAL

Two (2) Hansen Safetylite clear anodized aluminum knurled grab rails shall be provided and vertically mounted on the rear of the apparatus, one (1) on each side of the body.

Each grab rail shall have red reflective vertical inserts and a white/ clear LED light.

12 VOLT ELECTRICAL SYSTEM

The truck shall have a 12-Volt electrical system. All wiring will be run in convoluted high temperature plastic loom. The wiring shall be color-coded, numbered, and function imprinted for permanent identification. All wiring devices shall be rated to carry 125% of the maximum ampere load for which the circuit is protected. All added electrical equipment shall be served by circuits separate and distinct from the chassis circuits. All solenoids, relays, and terminal blocks will be located in an easily accessible area. All circuits provided shall have properly rated low voltage over current protective devices. All electrical will be accordance with modern automotive wiring standards. All under side terminal junctions shall be fully enclosed in sealed plastic weather proof boxes.

Fouts Fire

ELECTRICAL SYSTEM (CHASSIS OEM)

The commercial chassis electrical system shall be furnished and installed by the chassis manufacturer and shall not be altered in any way so as to void or diminish the manufacturer's warranty responsibilities. Body builder wiring interface harnesses shall be specific to the chassis being utilized and the apparatus specifications with all such harnesses, circuits and connections being documented by the body builder and made part of the electrical schematics provided with the completed apparatus.

ELECTROMAGNETIC INTERFERENCE PROTECTION

The apparatus shall incorporate modern electrical system design, installation procedures, grounding techniques and wave generating components to provide the highest level of protection against electromagnetic (EMI) and radio wave frequency (RFI) interferences.

The apparatus shall be designed to operate and correctly function in congested municipal environments as well as industrial or concentrated commercial scenes without adverse effects from either EMI or RFI. Communications equipment installed after the apparatus is delivered shall be immediately tested by the installer for reception and transmission signal quality.

CHASSIS GROUND LIGHTS

Two (2) TecNiq model E10-WS00-1 LED ground lights with outward facing angle brackets shall be installed, one (1) under each chassis door.

FRONT OF BODY GROUND LIGHTS

Two (2) TecNiq model E10-WS00-1 LED ground lights with outward facing angle brackets shall be installed under the front of the body. One (1) light shall be located on the driver side and one (1) light shall be located on the officer side of the apparatus.

REAR STEP GROUND LIGHTS

Two (2) TecNiq model E10-WS00-1 LED ground lights with outward facing angle brackets shall be installed under the rear step of the apparatus, one (1) each side.

GROUND LIGHT SWITCHING

The cab and body ground lights shall activate by shifting the transmission into Park.

HAZARD LIGHT

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One (1) flashing red LED light, located in the driving compartment, the light shall be illuminated automatically whenever any compartment door is ajar.

The hazard light shall be marked with a sign that reads "Do Not Move Apparatus When Light is On".

The warning light shall be interlocked to the parking brake and shall only alert the driver when the parking brake is released. The light shall also be used to signal that other ancillary equipment such as racks light towers etc. are not in their "ready for transport" position.

REAR DIRECTIONALS

Rear directional lighting shall be supplied as follows:

Two (2) Whelen model M62BTTC LED brake/tail lights shall be installed on the rear of the body. Each light shall have a clear lens.

Two (2) Whelen model M62TC Amber LED turn signal lights shall be installed on the rear of the body. Each light shall have a clear lens.

Two (2) Whelen model M62BU LED reverse lights shall be installed on the rear of the body.

HOUSINGS FOR DIRECTIONALS

The two (2) sets of Whelen rear signal lights shall each be housed in a vertical chrome plated housing, designed to hold four (4) lights each. The fourth opening shall be for the lower rear warning lights. The lights shall be mounted in order, from top to bottom:

- Warning light
- Turn signal light
- Brake/ tail light
- Reverse light

DOT MARKER LIGHTS AND REFLECTORS

LED marker lights shall be installed on the vehicle in conformance to the Department of Transportation requirements. All marker lights shall be incorporated into the headlight circuit of the cab/chassis.

MARKER LIGHTS

LED marker lights shall be installed on the vehicle in conformance to the Department of Transportation requirements. The side and rear of the body will be provided with reflectors. All marker lights shall be incorporated into the headlight circuit of the cab/chassis

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Two (2) amber reflectors shall be provided on the apparatus body lower side, as far forward and low as practical, one (1) each side if the apparatus is 30 feet long or longer.

Four (4) red reflectors shall be provided on the apparatus rear, one (1) each side and two (2) on the rear.

LICENSE PLATE BRACKET

There shall be a license plate bracket mounted on the rear of the apparatus. A clear LED light shall be incorporated into the bracket

WORK LIGHT, PUMP AREA, 12V

One (1) 12V adjustable 4.00" round LED work light shall be mounted at the rear of the skid unit to provide light during night time operations. The light(s) shall have a black housing with a black rear cover.

WORK LIGHT SWITCH

The pump area work light shall be wired to the electric start on the pump.

SIDE FACING UPPER FRONT BODY SCENE LIGHTS

One (1) pair of Whelen M62SLC EZ Series LED scene lights shall be installed. The lights shall be located on the left and right sides of the upper front portion of the apparatus body. Each light shall be supplied and installed with a chrome bezel.

SIDE FACING UPPER REAR BODY SCENE LIGHTS

One (1) pair of Whelen M62SLC EZ Series LED scene lights shall be installed. The lights shall be located on the left and right sides of the upper rear portion of the apparatus body. Each light shall be supplied and installed with a chrome bezel.

REAR FACING UPPER BODY SCENE LIGHTS

One (1) pair of Whelen M62SLC EZ Series LED scene lights shall be installed. The lights shall be located on the rear of the apparatus body, one (1) each side. Each light shall be supplied and installed with a chrome bezel.

SCENE LIGHT ACTIVATION

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The scene lights shall be activated by a switch located on the siren control head. Each side shall be activated separately.

DUAL FUNCTION SCENE LIGHT(S)

The rear scene lights shall activate automatically upon placing the transmission into reverse.

BACK-UP CAMERA INSTALLATION

The chassis supplied back-up camera shall be installed at the rear of the body.

NFPA AUDIBLE AND LIGHTING WARNING PACKAGE

The following warning light package shall include all of the minimum warning light and actuation requirements for the current revision of the NFPA 1900. The lighting as specified shall meet the requirements for both "Clearing Right of Way" and "Blocking Right of Way" which includes disabling all white warning lights when the apparatus is in "Blocking Right of Way" mode.

WARNING LIGHT FLASH PATTERN

All of the perimeter warning lights shall be set to the default NFPA flash pattern as provided by the warning light manufacturer.

LIGHTBAR

One (1) WHELEN model JE2NFPA 56.00" LED lightbar shall be supplied and mounted. The lightbar shall have clear lenses and contain the following modules:

Four (4) RED LIN6 LED modules, two (2) on each corner.

Four (4) RED CON3 LED modules, across the front.

Two (2) WHITE CON3 LED modules, on the front.

The forward facing white lights shall be automatically disabled for the "Blocking Right of Way" mode.

LIGHT BAR SWITCHING

One (1) momentary rocker switch with indicator shall be installed on the switch panel in the cab to control the light bar. The switch shall be labeled "LIGHT BAR". The switch shall only be active when the master warning switch is engaged.

SIDE FACING UPPER FRONT BODY WARNING LIGHTS

Fouts Fire

One (1) pair of Whelen model M6 series LED warning lights shall be installed, one (1) each side of the upper front portion of the apparatus body.

The driver side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.

The officer side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.

Each light shall be mounted with a Whelen Model M6FC chrome flange.

SIDE FACING UPPER REAR BODY WARNING LIGHTS

One (1) pair of Whelen model M6 series LED warning lights shall be installed, one (1) each side of the upper rear portion of the apparatus body.

The driver side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.

The officer side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.

Each light shall be mounted with a Whelen Model M6FC chrome flange.

UPPER REAR BODY WARNING LIGHTS

One (1) pair of Whelen model M6 series LED warning lights shall be installed, one (1) each side of the upper rear of the apparatus body.

The driver side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.

The officer side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.

Each light shall be mounted with a Whelen Model M6FC chrome flange.

UPPER WARNING LIGHT SWITCH

The upper warning lights shall be controlled by a switch located on the siren head.

LOWER FRONT WARNING LIGHTS

Two (2) pair of Whelen model M7 Series LED warning lights shall be installed, one (1) each side one the front of the chassis cab.

The driver side warning light shall be a Whelen Model M7RC red Super-LED with clear lens.

The officer side warning light shall be a Whelen Model M7RC red Super-LED with clear lens.

Fouts Fire

Each light shall be mounted with a Whelen Model M7FC chrome flange.

LOWER INTERSECTION WARNING LIGHTS

One (1) pair of Whelen model M7 LED warning lights shall be installed, one (1) each side of the chassis cab.

The driver side warning light shall be a Whelen Model M7RC red Super-LED with clear lens.

The officer side warning light shall be a Whelen Model M7RC red Super-LED with clear lens.

Each light shall be mounted with a Whelen Model M7FC chrome flange.

LOWER MID-BODY WARNING LIGHTS

One (1) pair of Whelen model M7 Series LED warning lights shall be installed, one (1) each side of the apparatus, mid-body.

The driver side warning light shall be a Whelen Model M7RC red Super-LED with clear lens.

The officer side warning light shall be a Whelen Model M7RC red Super-LED with clear lens.

Each light shall be mounted with a Whelen Model M7FC chrome flange.

LOWER REAR WARNING LIGHTS

One (1) pair of Whelen model M6 Series LED warning lights shall be installed, one (1) each side of the lower rear of the apparatus body.

The driver side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.

The officer side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.

The warning lights on the rear of the body shall be mounted in the upper section of each tail light casting.

LOWER WARNING LIGHT SWITCH

The lower warning lights shall be controlled by a switch located on the siren head.

ELECTRIC SIREN AND LIGHT CONTROL(S)

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One (1) Whelen model #C399 CenCom Core system shall provided and installed.

The control head shall be a Whelen model #CCTL6 and include (8) push button switches, four (4) position slide switch, seven (7) position rotary know, three (3) traffic advisor switches, and a noise canceling microphone.

ELECTRONIC SIREN SPEAKER

One (1) Whelen model SA315P 100 watt speaker shall be provided. The speaker shall produce a minimum sound output of 120 dB at 10 feet to meet current NFPA 1900.

The speaker shall be mounted behind the chassis grille on the left hand side.

ELECTRONIC SIREN SPEAKER

One (1) Whelen model SA315P 100 watt speaker shall be provided. The speaker shall produce a minimum sound output of 120 dB at 10 feet to meet current NFPA 1900.

The speaker shall be mounted behind the chassis grille on the right hand side.

SIREN NOISE WARNING LABEL - FAMA# 42

A permanent label shall be provided inside the driver's door warning of potential injury that could be received from the noise of the siren. The label shall also state safety precautions that should be taken when the siren is in use.

BODY PAINT PROCESS

All bright metal fittings, if unavailable in stainless steel shall be heavily chrome plated. Iron fittings shall be copper plated prior to chrome plating.

All seams shall be caulked both inside and along the exterior edges with a urethane automotive sealant to prevent moisture from entering between any body panel.

The body and all parts shall be thoroughly washed with a grease cutting solvent (PPG DX330) prior to any sanding. After the body has been sanded and the weld marks and minor imperfections are filled and sanded, the body shall be washed again with (PPG DX330) to remove any contaminants on the surface.

The first coating to be applied is a pre-treat self etching primer (PPG DX1787) (.5 to 1.0 dry film build) for maximum adhesion to the body material. The next two to four coats (depending on need) shall be an acrylic urethane primer surfacer (PPG K36). The film build shall be 4-6 mils when dry. The primer surfacer coat, after appropriate dry time, shall be sanded with 320-600 grit sandpaper to ensure

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maximum gloss of the paint. The last step is the application of at least three coats of PPG Delfleet polyurethane two-component color (single stage). The film build being 2-3 mils dry. The single stage polyurethane, when mixed F3270 catalyst (PPG F3260) shall provide a UV barrier to prevent fading and chalking.

All products and technicians are certified by PPG every two (2) years.

CHASSIS PAINT

The chassis shall be painted by the OEM Chassis Manufacturer.

PRIMING

All surfaces to be painted shall be primed with three (3) parts PPG F3993 Primer mixed with one (1) PPG F3996 Primer Hardener , and a half (.5) part PPG Thinner F3320.

Two (2) applications of primer shall be applied. The first application shall be four (4) coats and the second application shall be three (3) coats.

A final application of sealer shall be applied using Primer Filler.

PAINT FINISH

The body shall be painted with a PPG Delfleet Evolution Paint System.

As part of the curing process the painted body shall go through a baking process. The painted components shall be baked at 185 degrees for 3 hours to achieve a complete coating cure on the finished product.

After bake and ample cool down time, the coated surface shall be sanded using 3M 1000, 1200, and or 1500 grit sandpaper to remove surface defects. In the final step, the surface shall be buffed with 3M Super-duty compound to add extra shine to coated surface. No more than .5 mil shall be removed in this process.

All products and technicians shall be certified by PPG every two (2) years.

SIDE COMPARTMENT FINISH, ZOLATONE

The apparatus side compartment interiors are to be coated with Zolatone, a polychromatic, modified nitrocellulose coating with a flat background color with accenting fleck colors. The compartments shall be cleaned with a grease remover, and then the surface sanded and prepared for painting. The Zolatone finish is washed and waxed like paint, and is resistant to man solvents and wear.

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PAINT COLOR

The apparatus body paint shall be "cross referenced" from the chassis paint, and shall be painted to match the main chassis color as close as possible.

REFLECTIVE LETTERING - PURCHASER SUPPLIED

Reflective lettering shall be installed by the purchaser.

LOOSE EQUIPMENT

The following items shall be provided and shipped loose with the completed apparatus at the time of delivery:

ONE YEAR APPARATUS WARRANTY

The complete apparatus detailed herein shall be warranted against defects in materials and workmanship for a period of twelve (12) months, effective upon pick up or delivery of the completed apparatus to the purchaser, as detailed in the respective warranty documents. Any unauthorized alterations or modifications to the apparatus shall void this warranty.

Other warranties, as provided by individual component manufacturers may extend beyond this warranty.

APPARATUS BODY WARRANTY, TEN YEAR

The apparatus body as detailed herein shall have a structural warranty against defects in materials and workmanship for a period of ten (10) years, effective upon final payment in full by the Purchaser, and pick up or delivery of the completed apparatus to the Purchaser. Any unauthorized alterations or modifications to the body shall void this warranty.

PLUMBING WARRANTY, TEN YEAR

A Stainless Steel Plumbing/Piping warranty shall be provided by the apparatus manufacturer for products of its manufacture to be free from defects in material and workmanship, under normal use and service, for a period of ten (10) years effective upon final payment in full by the Purchaser, and pick up or delivery of the completed apparatus to the Purchaser. Any unauthorized alterations or modifications to the plumbing shall void this warranty.

PAINT WARRANTY, FIVE YEAR

The finish paint as used on the proposed apparatus shall be warranted against defects in materials and workmanship for a prorated period of five (5) years, effective upon final payment in full by the

Fouts Fire

Purchaser, and pick up or delivery of the completed apparatus to the Purchaser. Any unauthorized alterations or modifications to the apparatus shall void this warranty.

APPARATUS ELECTRICAL WARRANTY, TWO YEAR

The apparatus electrical system as detailed herein shall have an electrical warranty against defects in materials and workmanship for a period of two (2) years, effective upon final payment in full by the Purchaser, and pick up or delivery of the completed apparatus to the Purchaser. Any unauthorized alterations or modifications to the electrical system shall void this warranty.

AKRON BRASS WARRANTY

The Akron Brass valves shall be warranted by Akron Brass for a period of ten (10) years from the date of delivery. The warranty for electronics shall be warranted by Akron Brass for a period of five (5) years from date of delivery.

WHELEN WARNING LIGHT / SIREN WARRANTY

Whelen products shall be covered by a direct warranty for up to a maximum two (2) years from date of purchase (not to exceed three (3) years from date of manufacture), with proof of purchase. Whelen siren speakers, when used with a Whelen siren amplifier, are covered by a two (2) year warranty from the date of manufacture. Heavy-Duty motor assemblies (so marked) are covered by a direct warranty for up to three (3) years from date of manufacture.

WHELEN HDP / 5 YEAR WARRANTY

Whelen Automotive Non-Lightbar Strobe Power Supplies, LED Ballasts and LED Products bearing the official HDP label and manufactured to HDP standards shall be covered by a direct warranty for up to five (5) years from date of manufacture.

WHELEN LIMITED LIFETIME WARRANTY

The following Whelen products shall be covered by a lifetime warranty.

Freedom Series Light bars, M-Series Lights, L31 Series, B6 Series, Micro Freedom Series, Pioneer Scene Lighting (Excluded Pioneer Life), PSTANK2.

FIRE RESEARCH PRODUCTS WARRANTY

All Fire Research Corporation (FRC) products shall be warranted against defects in material and workmanship for a period of two (2) years from the original date of delivery. (For products not put immediately into service, a 90 day grace period from the original date of purchase shall apply.) Any

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product proven to be defective during the warranty period and covered by the terms of this warranty shall be repaired or replaced (at the discretion of FRC) without charge.

All Fire Research Corporation (FRC) LED lighting products shall be warranted against defects in material and workmanship for the period of five (5) years from the original date of delivery. (For products not put immediately into service, a 90 day grace period from the original date of purchase shall apply.) Any product proven to be defective during the warranty period and covered by the terms of this warranty shall be repaired or replaced (at the discretion of FRC) without charge.

Fire Research Corporation (FRC) offers a lifetime warranty for all Spectra Series, Evolution II, CrestLight, Radiant, and SoBrite products installed on fire or emergency medical services apparatus. Any product proven to be defective during the warranty period and covered by the terms of this warranty shall be repaired or replaced (at the discretion of FRC) without charge.

KUSSMAUL ELECTRONICS WARRANTY

All products manufactured by Kussmaul Electronics Company Inc. are warranted to be free of defects in material and/or workmanship. Kussmaul Electronics shall repair or replace without charge, any material or defects which become apparent in normal use within the specified warranty period.

All Electronic items are warranted for three (3) years
Auto and Air Ejects are warranted for two (2) years
Auto Pumps are warranted for one (1) year