



Specification for:
NWCG Type 5 Wildland Engine
Ford F550 - 6x6 - Diesel - 4 Door
Flat Bed Body, Alum, 138

Submitted To:
Bill Gardner, Chief
Leander Fire Department
P.o.box 319 Leander, TX 78646

Specification **2945**, Job No. **14423**
February 15, 2019

Prepared by:
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Skeeter Brush Trucks, LLC

Proposal

We are pleased to submit the following specifications to you for a **2018 Skeeter Brush Truck** per your request for quotation. The following paragraphs will describe in detail the apparatus proposed. Loose equipment not specifically requested will not be provided.

Skeeter Brush Trucks, LLC. a wholly owned company of Siddons-Martin Emergency Group, is a custom fire apparatus manufacturer specializing in Brush-Grass-Wildland fire fighting vehicles. Our 22,000 square foot manufacturing facility is located in Hillsboro, Texas and is operated by some of the most experienced wildland firefighting vehicle manufacturing individuals in the business. Our performance and quality minded approach to manufacturing generates some of the most reliable vehicles in the industry, thus yielding a very high return on investment.

Skeeter Brush Trucks, LLC. provides the very best sole source product and service solutions to the fire service. Skeeter Brush Trucks LLC carries \$1,000,000 in liability insurance, with \$3,000,000 in excess umbrella liability insurance. The opportunity to place this Skeeter Brush Truck in your department is greatly appreciated and we are certain it will fulfill your every requirement. We look forward to working for you.

Siddons-Martin Emergency Group sales and service professionals are dedicated and experienced in all aspects of the fire apparatus business. Our core business is the sales and service of fire apparatus.

Service Advantage

Siddons-Martin Emergency Group currently staffs sixteen (16) service centers located throughout Texas, Louisiana, and New Mexico, and maintains a fleet of service vehicles to provide on-site service of your SKEETER Brush Truck. The Siddons-Martin Emergency Group Service Department is dedicated to the fire service and provides service and maintenance exclusively on fire apparatus. Siddons-Martin Emergency Group employs numerous EVT trained technicians and is constantly engaged in continuing factory and EVT training classes and programs in order to stay abreast of the rapidly improving technologies incorporated within today's fire apparatus. SMEG is an authorized sales and service dealer for Pierce Mfg., and an authorized service center for Waterous, Hale, and Darley fire pumps, and an OEM distributor for all major fire equipment accessories.

Construction and Design

Skeeter Brush Trucks body and component designs are engineered. Body construction (unless otherwise noted) is done in-house, using the best in design and materials. RBM's for body frames are among the very highest in the industry. Wiring harnesses are custom manufactured in-house, and meet or exceed OEM standards. All wiring is protected, run through conduit, and distributed through one, easily accessed, sealed control box.

Chassis Operation Manual

The chassis manufacturer shall provide one (1) operational manual. This manual may be in either a notebook type binder, with reference tabs or a compact disk (CD) with all of the printed material in an electronic format (Adobe Acrobat PDF).

Fire Pump Operational Manual

A fire pump service, instruction, and operational manual shall be supplied. This manual may be in either a notebook type binder, with reference tabs or a compact disk (CD) with all of the printed material in an electronic format (Adobe Acrobat PDF).

Foam System Operational Manual

A foam system service, instruction, and operational manual shall be supplied. This manual may be in either a notebook type binder, with reference tabs or a compact disk (CD) with all of the printed material in an electronic format (Adobe Acrobat PDF).

Apparatus Operational Manuals

The fire apparatus manufacturer shall provide two (2) operational manuals. These manuals may be in either a notebook type binder, with reference tabs or a compact disk (CD) with all of the printed material in an electronic format (Adobe Acrobat PDF).

100044.3 - PAINT

1. Cab Color: Red
2. Cab Secondary Color: N/A
3. Description: Solid Red
4. Bumper Color: Brushed Aluminum
5. Wheel Color: RED
6. Body Color: BED LINED BLACK
7. Cab Steps: Black Bed Liner

Special: James Webb changed component. 12/04/2018 14:32

203851.1 - CHASSIS SPECIFICATIONS

One (1) FORD F-550, two axle drive 6x6, dual rear wheels (DRW), four (4) door, XL, Crew Cab chassis

Wheelbase: 204"

Cab to Axle: 84"

Grille: black

Tow Hooks: front loops

Driving Front Axle and Suspension: 7,500# HD front package, 7,500# suspension package, stabilizer bar, front shocks, manual hubs

Transfer Case, Primary: cab manual controlled high and low range HD front package, manual hubs

Transfer Case, Secondary: cab manual controlled engagement for use of rear (3rd) axle.

Tires: two (2) front tires shall be 225/70R19.50, radial all weather/off road tread

Front Wheels: two (2) 19.50" x 6.00" steel disc, ten (10)-hole pattern steel disc wheels

Rear Axle and Suspension #1: 14,706# wide track rear axle, 8,000# coil spring suspension package, stabilizer bar.

Rear Axle and Suspension #2: 14,706# wide track rear axle, 8,000# coil spring suspension package, stabilizer bar.

Differential Gears: 4.88 Gears, Limited slip Rear Differentials (2)

Tires: eight (8) 225/70R19.50 radial all weather/off road tread

Rear Wheels: eight (8) 19.50" x 6.00" steel disc, ten (10)-hole pattern steel disc wheels

Braking System: six (6) wheel disc brake system with an Anti Lock (ABS)

Engine:

- Model: Power Stroke 6.7 turbo-charged diesel
- Number of Cylinders: Eight (8) "V" configuration
- Displacement: 6.7 liters
- Rated Brake Horsepower: 330 at 2800 rpm
- Rated Torque: 770 ft lbs
- Turbocharger

High Idle Control

Cooling System: a coolant mixture protected to -30 degrees Fahrenheit

Exhaust System: horizontally mounted, discharge on passenger's side aft of wheels

Fuel Tank: 40 gallon rear mounted, driver's side filler extension

DEF Tank:

Transmission: TorqShift six speed automatic

Steering: power steering system

Batteries: two (2) 78 amp-hr 750CCA 12-volt batteries

Alternator: dual 157 and 175 amp 12 volt, 332 total amp.

Cab Construction: XL Series four (4) door aluminum construction, sun visors, tinted glass, roof clearance lights, grab handles interior

Mirrors: black manually telescope fold-away in/out for view adjustment.

Air bags front and air curtains side

Climate Controls: controls for heat, defroster, and air conditioning

Window and Door Controls: manual

Air Bags: driver's and passenger's front, seat side, and side curtain

Cab Instruments: standard type, six (6) rocker switches

Drivers and Passenger Seat: 40/20/40 vinyl bucket type seats with three (3) point safety harness. center flip down seat back. Split fold down rear seats

Printed Manuals: one (1) printed chassis operation manual

Cab Accessories: AM/FM radio, two radio speakers and antenna

Operator Controlled Manual Regen System

Jack and Lug Wrench Set

Color: Ford Race Red

203809.1 - 84" CAB TO AXLE

The chassis Cab to Axle measurement shall be 84".

203770.2 - ELECTRONIC SHIFT ON THE FLY

The chassis shall be equipped with an electronic shift transfer case. The front axle hubs shall be auto locking, with a manual backup feature.

NOTE: ONLY AVAILABLE ON "DIESEL" CHASSIS PER FORD

Special: James Webb changed component. 06/21/2018 12:31

100037.1 - POWER PACKAGE

The chassis shall be equipped with power locks, windows, and heated power mirrors.

100045.1 - NO LIFT OR LARGER TIRES/WHEELS

No Lift or Larger Tires/Wheels shall be installed on the apparatus.

Special: James Webb changed component. 06/21/2018 10:43

100046.2 - CHASSIS LIFT KIT, 6X6

A 6" heavy duty, 4 link, off road suspension lift kit with heavy-duty off road shocks shall be installed on the Ford chassis. The system is designed to significantly increase wheel travel, in addition to giving the chassis increased ground clearance.

NOTE: THE END USER MUST BE AWARE THAT LIFTING THE CHASSIS AND ADDING LARGER TIRES WILL ALTER THE VEHICLES CENTER OF GRAVITY. THIS WILL AFFECT THE VEHICLES HANDLING CHARACTERISTICS.

IN ADDITION, THE LARGER TIRES WILL AFFECT STOPPING DISTANCE. THE SYSTEM IS NOT RECOMMENDED FOR VEHICLES

THAT OPERATE PRIMARILY IN AN ON ROAD ENVIRONMENT. THE SYSTEM IS HIGHLY RECOMMENDED FOR VEHICLES THAT OPERATE IN OFF ROAD OR ROUGH TERRAIN ENVIRONMENTS.

DUE TO THE LARGER TIRES A VEHICLE SPEED SENSOR CALIBRATOR WILL BE INSTALLED TO RE-CALIBRATE THE SPEEDOMETER TO ACCOMMODATE THE LARGER TIRES.

TURNING RADIUS MAY BE REDUCED (if needed) 1-3 DEGREES TO PREVENT TIRE RUB.

100048.2 - FRONT AND REAR SUPER SINGLE TIRES AND WHEELS

There shall be six (6) super single front and rear tires, There shall be 335/80R20 22PR, severe service radial all terrain tread. The tire weight rating shall be load range "M" (22 ply, 6780 lbs), and the speed rating shall be "K" (68 mph).

There shall be four (4) wheels for the front and rear tires. There shall be 20" x 11.00" disc, ten (10)-hole pattern special order for Military/Government on/off road application with a rating to match or exceed the tire rating.

100053.1 - SPARE SUPER SINGLE TIRE AND WHEEL

There shall be one (1) super single spare tire. It shall be 335/80R20 22PR, severe service radial all terrain tread. The tire weight rating shall be load range "M" (22 ply, 6780 lbs), and the speed rating shall be "K" (68 mph).

There shall be a 20" x 11.00" disc, ten (10)-hole pattern special order wheel for Military/Government on/off road application with a rating to match or exceed the tire rating.

100055.1 - MOUNTING SPARE TIRE AND WHEEL

The spare tire and wheel shall be mounted on top of the water tank.

100062.2 - FRONT BUMPER

The factory bumper shall be removed and replaced with a custom fabricated, heavy duty aluminum bumper and grille guard protection assembly.

THERE SHALL BE NO HOLES FOR OFF-ROAD LIGHTS

Special: James Webb changed component. 06/21/2018 13:51

100058.1 - REAR MUD FLAPS

The chassis shall be supplied with mud flaps with the manufacturer's logo. The mud flaps shall be installed behind the rear wheels.

100063.1 - FRONT BUMPER SKID PLATE 1/4"

A 1/4" (0.25") aluminum skid plate will be installed from the bumper area extending below the bumper and chassis radiator area.

100065.1 - TRANSFER CASE SKID PLATE, LONG

A removable heavy .250" aluminum skid plate assembly shall be installed to protect the oil pan and transfer case.

100586.1 - DPF PROTECTIVE PLATE

A protective plate will be mounted under the DPF sensor to protect it from damage.

100066.1 - EXHAUST DPF CANISTER PROTECTION

A heavy duty steel tubing DPF exhaust canister protection weldment shall be installed. It shall protect the DPF system from damage when off road. The dimensions shall be approximately 72" long x 10" wide. It shall be made from 1" round steel tubing, and be attached to the chassis frame at four (4) points with grade 8 hardware.

100111.1 - CAB STEPS

The cab shall be equipped with steel tubing step assemblies, on each side of the cab.

100086.3 - CUSTOM FABRICATED CONSOLE AND SWITCH PANEL

A custom fabricated poly (plastic) electrical console and enclosure shall be located between the driver's and passenger's seats. It shall house the siren, switches, cup holder, and auxiliary equipment.

There shall be two (2) 12 volt charger ports and one (1) dual USB port in the center console.

ADD KUSSMAUL HOT TERMINAL STUD

Special: James Webb changed component. 01/25/2019 15:01

100082.1 - WINCH -- FRONT MOUNTED

A Warn Winch Company Model 16.5ti PN68801 16,500# capacity 12-volt electric powered winch shall be permanently installed at the front center bumper extension area. The unit shall include the following:

- a) 16,500# rated load
- b) Thermo-metric indicator for motor temperature monitoring
- c) Cable roller guide assembly
- d) 90 feet of 7/16" diameter galvanized cable and hawse fairlead & safety hook assembly shall be supplied.
- e) Winch speed shall be constant with forward and reverse modes controlled with a push button device at the end of a 12 feet (12') minimum control cable which connects to the winch through a weatherproof receptacle.

100178.1 - REAR RECEIVER

The rear of the chassis shall be equipped with one (1) square steel tube receiver assembly for high or low angle rescue, trailer use, and winch applications. It shall be the same size as a Class III trailer hitch and shall be attached to the chassis frame assembly. The receiver shall be rated at approximately 10,000#.

The rear receiver assembly shall be equipped with two (2) heavy duty rear tow loops, one (1) each side.

203896.2 - FIRE PUMP SPECIFICATIONS

The Darley model number HSE 250 Kubota Single-Stage Diesel Engine-Driven Fire pump, centrifugal portable pump shall be provided. The High pressure, medium volume pump, gear driven, engine mounted shall meet the following performance requirements:

350 GPM @ 150 PSI
250 GPM @ 300 PSI
150 GPM @ 390 PSI

Primer

The pump primer shall be U. L. approved and capable of pulling a vacuum through 20 ft. of hard suction hose with lifts up to 10 ft. per requirements of NFPA 1901. A single push-pull priming control knob shall be located on operator's panel. Primer shall be rotary vane-type complete with valve switch and oil reservoir. Priming pump to be constructed of heat-treated aluminum and hard coated anodized.

Pump Design

Impellers to be high-strength bronze alloy, accurately balanced for precision fit and durability. Impellers to feature a double seal ring design to minimize end thrust.

Renewable bronze, double-labyrinth, wrap-around seal rings are to be furnished in the pump.

Pump shaft to be precision-ground 416 stainless steel with mechanical seal. Pump shaft is to be splined to receive broached impeller hub.

Bearings are to be heavy duty, deep groove, radial-type ball bearings, oversized for long life. Bearings to be protected at all openings from road dirt and water splash with oil seals and water slingers.

An integral check valve is to be provided in the discharge head assembly of the pump to enable priming with the discharge valves open.

Pump Casing and Gear Box

Transmission case to be alloy cast iron of heavy-duty design with adequate oil reserve capacity to maintain low operating temperature. Magnetic drain plug to be provided.

Pump casing shall be of anodized aluminum and vertically split, with a minimum tensile strength of 65,000 PSI - bronze-fitted. Pump drive shaft shall be precision-ground, heat-treated alloy steel-minimum 1-1/2" x 10-spline ends.

Pump ratio to be selected by the manufacturer's Engineering Department. Gears are to be helical in design and precision cut for quiet operation and long life. Gears to be cut from high strength alloy steel, heat treated and gas nitrided. Gear face to be minimum of 3-1/2". Chain drive and/or design requiring extra lubricating pump is not acceptable.

Suction

The pump shall come complete with (1) 4" NPT suction inlet with removable, recessed screen and brass, chrome-plated, long-handled cap.

Discharge

One 3" NPT.

Documentation

Pump Warranty/Guarantee to be included with each proposal. Pump warranty shall be for three (3) years.

Engine

The engine shall be a Kubota V2403, which meets all Tier 4 emissions requirements, this engine is a vertical 4 cycle liquid cooled Diesel engine, 4 Cylinder, with 2.434L displacement, with IDI combustion system, and a Turbocharged intake system, with a maximum speed of 2700 RPM, electric start, 12 volt electrical system with 40 amp alternator, spin-on oil filter, fuel filter, heavy duty air filter and muffler. The engine shall draw its fuel from the chassis fuel tank. Chassis battery shall be utilized for engine start.

The engine shall be provided in a full power unit including radiator, suction fan, fan guard and fan shroud and mechanical governor. Basic engine control panel will be supplied, should there be a requirement for additional gauges/switches etc. these shall be specified by the customer.

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100272.1 - STAINLESS STEEL PLUMBING SYSTEM

The auxiliary fire pump plumbing system shall be built mostly of stainless steel piping, fittings, and connections. Victaulic couplings shall be installed to permit flexing of the plumbing system and allow for quick removal of piping or valves for service. Tank connections and remote plumbing shall use high-pressure flexible piping. Flexible hose couplings shall be threaded stainless steel or Victaulic connections.

100285.1 - VALVES

All valves used in the plumbing installation shall be stainless steel quarter turn full flow type.

The plumbing installation shall include quarter turn ball valves with local "on-valve" handle control, with custom embossed labeling for each valve.

100483.1 - HOSE THREADS

The hose threads shall be National Hose Standard (NH) on all base threads on the apparatus intakes and discharges, unless otherwise specified.

100263.1 - EXHAUST SYSTEM

The auxiliary fire pump and engine assembly shall have a muffler and vertical exhaust pipe. The exhaust pipe shall be directed upward and away from the pump operator. A rain cap will be installed on the vertical exhaust outlet.

100685.1 - HAND PRIMER

A Guzzler® Hand Pump GH-0400D shall be installed for manual drafting.

100266.1 - FIRE PUMP ENCLOSURE

The fire pump house shall be installed around the pump and engine. The enclosure shall be fabricated of .125" aluminum tread plate. Hinged doors and access panels shall be installed for servicing of the engine.

An engine and pump control panel shall be provided at the rear of the vehicle. The following shall be located at the operator's position:

2.5" discharge pressure gauge
start/stop control
throttle control

low oil pressure warning light
tachometer (if so equipped)

The pump control panel shall be mounted at the passenger's rear corner of the body.

100265.1 - PUMP CONTROL PANEL ENCLOSURE

A pump panel enclosure shall be installed. The enclosure shall be fabricated of .125" aluminum with a DA finish, bolted in place with a pump instrument panel installed.

An engine and pump control panel shall be provided at the rear of the vehicle. The following shall be located at the operator's position:

2.5" discharge pressure gauge
start/stop control
throttle control
low oil pressure warning light

The pump control panel shall be mounted at the passenger's side rear corner of the body.

100267.1 - FUEL SYSTEM FROM CHASSIS FUEL TANK

The fuel system for the auxiliary fire pump shall be plumbed from the chassis fuel system. There shall be a separate fuel pickup tube mounted in the chassis fuel tank specifically for a separate engine driven pump assembly.

There shall be an electric fuel pump with spin on fuel filter and flexible fuel hose furnished between the chassis fuel tank and the auxiliary pump.

100256.1 - 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. The cables shall have a circuit breaker installed at the chassis battery.

100254.1 - PUMP ENGINE OIL DRAIN

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

100255.1 - AUXILIARY FIRE PUMP MOUNTING PROVISIONS

The auxiliary fire pump shall be installed at the passenger's side rear of the body. The sub-structure shall have welded in mounting sub-plates between the structural members.

100253.1 - FIRE PUMP MASTER DRAIN

The fire pump shall have a master drain at the bottom of the water pump housing.

100270.1 - 2-1/2" GATED INTAKE -- REAR

One (1) 2-1/2" gated suction intake shall be installed on rear area to supply the fire pump from an external water supply. The valve shall be controlled with a direct quarter-turn ball valve control handle and shall have 2-1/2" NH female thread with removable screen with plug.

100283.1 - TANK TO PUMP LINE INSTALLATION

The 2.5" tank to pump line shall be installed with a flexible hump hose connection and stainless steel clamps to the water tank. The valve shall be controlled with a manually operated handle directly on the valve.

100281.1 - WATER TANK FILL AND COOLING LINE

One (1) 1" fire pump to water tank refill and bypass cooler line shall be provided. The pump to tank valve shall be a 1" full flow quarter turn ball valve with local control handle. A 1" flex hose shall be installed to the water tank.

100278.1 - 3/4" GARDEN HOSE DISCHARGE -- REAR

One (1) .75" garden hose discharge shall be installed on the rear pump area, controlled by a quarter turn ball valve with local control handle. The discharge shall have a .75" male garden hose threads and cap.

100274.1 - 2-1/2" DISCHARGE -- REAR

One (1) 2-1/2" discharge shall be installed at the rear pump area, controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NH male hose threads. The discharge shall be equipped with 2-1/2" female x 1-1/2" chrome plated brass reducer, 1-1/2" chrome cap and chain.

100277.1 - 1-1/2" PRE-CONNECT DISCHARGE -- REAR HOSEBED

One (1) 1-1/2" pre-connect discharge shall be installed on the rear hosebed, controlled by a quarter turn ball valve with direct local control handle in pump area. The discharge shall have 1-1/2" NH male hose threads.

The valve shall be on the manifold, with a feed line to the rear of the tray.

100280.1 - GROUND SWEEP DISCHARGES -- FRONT BUMPER

Two (2) ground sweep discharge nozzles shall be installed, one each side of the front bumper. Each nozzle shall have a 1" electric control valve, switched independently in the cab. The discharges shall be equipped with removable ground sweep nozzles angled accordingly with a 180 degree total front sweep pattern. The flow rate shall be 15-30 gpm.

Each nozzle shall have a custom fabricated brush guard installed to protect from damage when off road. The valves and manifold shall be protected from damage by the front bumper and skid plate.

One (1) 1.5" front bumper ground sweep discharge shall be piped to the front bumper area. The discharge shall be controlled by a 1.5" manual override valve at the rear pump area. Flexible 1.5" diameter high pressure hose shall be provided from the pump to the sweep nozzles with low point drains where necessary.

100306.2 - CUSTOMER SUPPLIED WHIP LINES

CUSTOMER SHALL SUPPLY THEIR OWN WHIP LINES

Special: James Webb changed component. 06/21/2018 11:10

100259.1 - CLASS A FOAM SYSTEM

A Scotty Model #4171 Class A through-the-pump foam system shall be installed to supply all discharges. The unit shall be mounted at the rear of the apparatus, within easy reach of pump operator. The unit shall be adjustable, permitting various foam ratio percentages to be educted depending on the nozzles in use. Foam selection percentages between .07 and 1% shall be available. The foam system has been designed for simplicity of operation and maintenance. A flush system will be installed.

100225.1 - WATER TANK GAUGE

A Class 1 "Intelli-Tank" water tank level gauge shall be installed on pump panel. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 tank. A pressure transducer mounted on the outside of the tank in an easily accessible area.

100202.1 - WATER TANK SPECIFICATIONS

The water tank shall have a capacity of 500 gallons.

*NOTE: 500 GALLON WATER TANK REQUIRES 138" MINIMUM BODY LENGTH AND 84" CAB TO AXLE MEASUREMENT.

100203.1 - TANK BUILD SPEC

The water tank shall be constructed of black polypropylene, nitrogen-welded and tested inside and out. The tank manufacturer shall define the floor, top, sides, ends, and baffles material thickness. The tank shall carry a lifetime warranty.

The transverse and longitudinal swash partitions shall be interlocked and welded to each other as well as to the walls of the tank. The partitions shall be designed and equipped with vent holes to permit air and liquid movement between compartments. The cover shall be recessed .375" from the top of the side walls. Hold down dowels shall extend through and be welded to both the covers and the transverse partitions, providing rigidity during fast fill operations. Drilled and tapped holes for lifting eyes shall be provided in the top area of the water tank.

The water tank manufacturer shall certify the capacity of the water tank prior to delivery of the apparatus. This capacity shall be recorded on the manufacturer's data plate.

100205.1 - NFPA COMPLIANCE

The water tank construction shall conform to applicable NFPA standards.

100206.1 - WATER TANK SIGHT GAUGE

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

100207.1 - FILL TOWER LOCATION

The tank fill tower shall be located in the driver's side rear corner of the water tank.

100209.1 - VENT AND OVERFLOW

The fill tower shall incorporate a vent and overflow system shall be designed into the water tank. The system shall include a 3" diameter pipe that functions both as an air vent while emptying the tank and as an overflow when filling the tank. The overflow shall discharge excess water below the frame rails of the vehicle.

100212.1 - TANK SUMP

A sump shall be installed in a central location in the bottom of the water tank. The tank-to-pump suction line shall be installed that will incorporate a dip tube type intake from the sump location. The tank shall be equipped with an anti-swirl plate located approximately 2-1/2" above the sump area.

100215.1 - PUMP TO TANK CONNECTION

An 1-1/2" connection shall be provided on the water tank for connection of the discharge side of the pump to the tank for filling purposes. The valves and hose required to complete this connection shall be supplied by the final assembler.

100216.1 - WATER TANK DRAIN PROVISIONS

A 1.5" plugged drain provision shall be installed in the rear lower, passengers side, vertical wall of the water tank for water tank draining and flush-out of debris.

100228.1 - FOAM TANK SPECIFICATIONS

The Class A foam tank shall have a capacity of 20 gallons.

100232.1 - FOAM TANK AND VENTING PROVISIONS

The foam concentrate tank shall be provided with a fill pipe having a volume of not less than 2 percent of the total tank volume. The filler opening shall be capped with a sealed air-tight threaded cover. The fill opening shall be designed to incorporate a removable screen and shall be located so that foam concentrate from a five (5) gallon container can be dumped into the tank.

The foam tank filler shall be equipped with a pressure/vacuum vent that enables the tank to compensate for changes in pressure or vacuum when filling or withdrawing foam concentrate from the tank. The pressure/vacuum vent shall not allow atmospheric air to enter the foam tank except during operation or to compensate for thermal fluctuations. The vent shall be protected to prevent foam concentrate from escaping or directly contacting the vent at any time. The vent shall be of sufficient size to prevent tank damage during filling or foam withdrawal.

A color coded label or visible permanent marking that reads "CLASS A -- FOAM TANK FILL" shall be placed at or near the foam concentrate tank fill opening. An additional label shall be placed at or near any foam concentrate tank fill opening stating the type of foam concentrate the system is designed to use.

Any restrictions on the types of foam concentrate that can be used with the system shall also be stated, along with a warning message that states "WARNING: DO NOT MIX BRANDS AND TYPES OF FOAM."

100233.1 - FOAM SYSTEM PIPING

A 3/4" fitting shall be provided on the foam tank for connection of the foam tank to the suction side of the foam system.

100235.1 - FOAM TANK DRAIN AND VALVE PROVISIONS

A 3/4" diameter connection, piping, and valve shall be installed for the foam tank for draining purposes.

100238.1 - FOAM TANK GAUGE

A Class 1 foam tank level gauge shall be installed on the pump panel. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 tank. A pressure transducer shall be mounted on the outside of the tank in an easily accessible area.

100113.2 - FLAT-BED BODY -- ALUMINUM

The body will be a custom fabricated severe service flatbed type, constructed of all aluminum. The body shall be 138" long by 96" wide, designed for an 84" cab to axle dimension. The body shall be specifically designed and engineered for off-road wildland firefighting.

FLAT-BED SUB-STRUCTURE

The body shall have 6" x 1.75" structural aluminum channel main frame rails. The body frame rails shall be isolated from the truck frame by .500" industrial isolators.

FLAT-BED CROSS-MEMBER SUB-STRUCTURE

The cross-members shall be 3" x 2 5/16" structural aluminum I beams with cross-members on 12" centers.

FLAT-BED MOUNTING

The body shall be bolted to the chassis frame rails at the rear end of the frame. There shall be brackets installed at the middle of the body frame to prevent side to side movement. The body shall be spring mounted at the front of the body frame. The flexible mounting system shall allow for body/chassis flexing during extreme off road conditions.

ANGLED CORNERS, FLAT-BED

The front corners of the flat-bed body will be angled at approximately 45 degrees.

HEADACHE RACK

The front of the body shall have a 2" formed aluminum tube headache rack. The rack shall extend the full width of the body and be attached to the front body corners. The assembly shall extend above the chassis cab and have mounting platform for installation of the light bar and two work lights. Wiring for the lights will be placed inside the tubing for protection. The headache rack shall have four (4) vertical 2" tubes for extra strength.

FUEL FILLER

The fuel filler tube and cap shall be installed at the driver's side, rear of the body.

FENDER PANELS

The lower portion of the flat-bed body shall have fender panels over and aft of the rear wheel panel area. The panels shall be constructed of smooth aluminum. The wheel well openings will be cut out to conform to the wheels.

REAR BODY PANEL

A vertical body panel shall be installed at the rear of the body constructed of .190" smooth aluminum. The panel shall house the running lights, taillights, back-up lights, and emergency lights. The body panel shall be angled to allow for approximately 27 degrees angle of departure.

PROTECTIVE RAILS

The upper body area shall be protected with radius corner 1" diameter aluminum tube railing assembly installed around the top of the step side flat-bed body. The corners of the body shall have vertical risers space in critical areas. The railings shall act as protection for the upper body structures when off road in heavy brush conditions. The rear upper body corner rails shall house the upper emergency lights and work lights.

Special: James Webb changed component. 06/07/2018 12:06

203804.3 - PAINTED FINISH BODY AND COMPARTMENTS/TRAYS

The exterior surface of all body skins, compartments, and trays shall all be BED LINED smooth aluminum plate. The interiors of all compartments shall also be BED LINED black.

The surface shall be sanded, acid washed, acid primed, primed, and top coat painted in accordance with the paint manufacturers specifications.

Special: James Webb changed component. 02/15/2019 15:35

100530.2 - FLAT-BED SUB-STRUCTURE

The body shall have 6" x 2.25" structural aluminum channel main frame rails. The body frame rails shall be isolated from the truck frame by .500" industrial rubber mat.

Special: James Webb changed component. 06/07/2018 12:06

100437.1 - FRONT BODY, UPPER, TRANSVERSE COMPARTMENT W/DOORS

A transverse compartment 24"W x 24"H x 96"L (exterior dimensions) shall be installed in front of the water tank on the body floor. The compartment shall have vertically hinged swing doors at each end. The compartment shall be lined with turtle tile.

The actual door opening shall be approximately 3" smaller in dimension.

100144.4 - DRIVERS SIDE UPPER BODY COMPARTMENT

A body equipment storage compartment shall be installed on the flatbed surface, driver's side of the apparatus. The exterior dimensions shall be approximately 72" wide, 24" high, and 18" deep. The compartment shall be constructed of .125" smooth aluminum on all exterior surfaces. The compartment shall be equipped with a lift up door with latch installed. The door shall be equipped with dual gas operated door opening assistant cylinders. Turtle tile shall be installed on the floor.

The actual door opening shall be approximately 3" smaller in dimension.

THE COMPARTMENT SHALL BE DIVIDED IN THE MIDDLE, WITH A FIXED SHELF IN THE REAR SECTION.

Special: James Webb changed component. 06/21/2018 13:16

100148.4 - PASSENGERS SIDE UPPER BODY COMPARTMENT

A body equipment storage compartment shall be installed on the flatbed surface, passenger's side of the apparatus. The exterior dimensions shall be approximately 72" wide, 24" high, and 18" deep. The compartment shall be constructed of .125" smooth aluminum on all exterior surfaces. The compartment shall be equipped with a lift up door with latch installed. The door shall be equipped with dual gas operated door opening assistant cylinders. Turtle tile shall be installed on the floor.

The actual door opening shall be approximately 3" smaller in dimension.

Special: James Webb changed component. 06/21/2018 13:17

100544.1 - CUSTOM COMPARTMENT SHELVING

A horizontal shelf with 1" lip shall be installed in the passenger's side compartment.

There shall be a vertical divider in the passenger's side upper body compartment. It shall be installed under the horizontal shelf.

203857.2 - SIDE BODY COMPARTMENTS, REAR BODY -- DRIVER'S SIDE

One (1) body equipment storage compartment shall be installed at the rear of the body, driver's side of the apparatus. The exterior dimensions shall be approximately: 32" wide, 44" high, and 18" deep. The compartment shall be constructed of .125" smooth aluminum on all exterior surfaces. The compartment shall be equipped with a vertically hinged door with a single latch installed. The door shall be equipped with gas operated door opening assistant cylinders.

The vertical compartment shall have one (1) fixed shelf.

The actual door opening shall be approximately 3" smaller in dimension.

The compartment floor shall be lined with turtle tile.

Special: James Webb changed component. 06/07/2018 12:09

100159.1 - UNDER BODY COMPARTMENT -- REAR CENTER

An under body equipment storage compartment shall be installed under the flatbed surface located in the center rear of the apparatus. The compartment shall be between the vertical body beams, upper floor surface, and an aluminum lower floor area. The compartment shall be equipped with a hinged drop down door with dual latches installed.

The exterior dimensions shall be approximately:

108" for a 114"L bed

120" for a 138"L bed

100166.1 - REAR SLIDE-OUT TRAY

The rear center compartment shall be equipped with an .190" aluminum slide out tray on UHMW plastic slide pads and poly rollers. The tray shall be full width and full length of the compartment interior.

100161.1 - COMPARTMENT DOOR KEY LOCKS

The hinged compartment doors shall be equipped with key type door locks.

100720.1 - COMPARTMENT LIGHTING, STRIP LIGHTS

Each upper body compartment shall be equipped with a white LED strip light.

100163.1 - AUTOMATIC COMPARTMENT DOOR LIGHT SWITCHES

Each exterior compartment light shall be automatically controlled by a door activated switch.

100164.1 - DOOR AJAR LIGHT

A "door ajar" warning light shall be installed on the center console. The light shall be flashing red LED light with a clear lens.

100169.4 - HOSE TRAY -- DRIVERS SIDE

A hose storage tray shall be installed over the driver's side equipment compartment, on the driver's side of the apparatus. The exterior dimensions shall be approximately: 16" wide, 8" high, and 72" long. The hose tray shall be constructed entirely of .125" smooth aluminum on all exterior surfaces. The assembly shall be equipped with an OUTBOARD hinged lift up smooth aluminum door on top, enclosed front panel, and open rear area. The hose tray shall be equipped with Turtle Tile floor covering.

The actual door opening shall be approximately 3" smaller in dimension.

Special: James Webb changed component. 06/21/2018 13:11

100382.3 - TOOL STORAGE TRAY/COMPARTMENT - PASSENGER SIDE

A tool storage compartment shall be installed over the passenger's side equipment compartment, on the passenger's side of the apparatus. The exterior dimensions shall be approximately: 16" wide, 8" high, and 72" long. The compartment shall be constructed of .125" smooth aluminum on all exterior surfaces. The compartment shall be equipped with an OUTBOARD hinged lift up smooth aluminum door with a latch installed. The compartment shall be equipped with Turtle Tile floor covering.

The actual door opening shall be approximately 3" smaller in dimension.

Special: James Webb changed component. 06/21/2018 13:11

200317.1 - I-ZONE BRACKETS

Two easily removable or flip out I Zone brackets will be provided and mounted at the rear of the apparatus, one on each side. The brackets will be designed with adequate reinforcement to eliminate flexing of the body and not interfere with any of the rear facing lights when carrying hose. The brackets will be mounted beside upper grab rail on the rear and as high as practical

100180.1 - REAR PULL OUT STEP

There shall be a rear "Pull-Out-Fold-Down" step located at the driver's side rear of the apparatus, step shall be stowed in a pocket under the rear of the unit. Storage pocket shall be fabricated to allow easy access to deploying for operation.

100181.1 - FOLDING STEP

A Signature 4 lighted 8" square folding step of die cast zinc shall be installed. The step shall comply with NFPA non-slip standards and shall be installed on the rear driver's side of the body. The step shall be equipped with lighting to NFPA standard.

100325.1 - ELECTRICAL ENCLOSURE

An electric wiring enclosure for the 12 volt wiring shall be installed in the forward wall of the driver's side upper body compartment with an access panel. The dimensions of the enclosure shall be approximately 20" high, 14" wide, and 4" deep.

100326.1 - 12 VOLT ELECTRICAL SPECIFICATIONS

The following describes the low voltage electrical system on the apparatus including all panels, electrical components, switches and relays, wiring harnesses and other electrical components. The apparatus manufacturer shall conform to the latest Federal DOT standards, current automotive electrical system standards and the applicable requirements of the NFPA.

Wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for which the circuit is protected. Voltage drops shall not exceed 10 percent in all wiring from the power source to the using device. The wiring, wiring harness and insulation shall be in conformance to applicable SAE and NFPA standards. The wiring harness shall conform to SAE J-1128 with GXL temperature properties. Exposed wiring shall be run in a loom with a minimum 289 degree Fahrenheit rating. Wiring looms shall be properly supported and attached to body members. Electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

All wiring connections and terminations shall provide positive mechanical and electrical connections and be installed in accordance with the device manufacturer's instructions. When wiring passes through metal panels, electrical connections shall be secured with mechanical type fasteners and rubber grommets

Wiring between cab and body shall be split using connectors or enclosed in a terminal junction panel allowing body removal with minimal impact on the apparatus electrical system. Connections shall be crimp-type with heat shrink tubing with insulated shanks to resist moisture and foreign debris such as grease and road grime. Weather resistant connectors shall be provided throughout the system.

Electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. When required, automatic reset breakers and relays shall be housed in the main body junction panel.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless enclosed in an electrical junction box or covered with a removable electrical panel. Wiring shall be secured in place and protected against heat, liquid contaminants and damage.

Low voltage overcurrent protective devices shall be provided for the electrical circuits. The devices shall be accessible and located in required terminal connection locations or weather resistant enclosures. Overcurrent protection devices shall be automatic reset type suitable for electrical equipment and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. Electro-magnetic interference suppression shall be provided in the system as required in applicable SAE standards.

The electrical system shall include the following:

Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. All terminal plugs located outside of the cab or body shall be treated with a corrosion preventative compound.

All electrical wiring shall be placed in a protective loom or be harnessed.

Exposed connections shall be protected by heat shrink material and sealed connectors.

Large fender washers shall be used when fastening equipment to the underside of the cab roof and all holes made in the roof shall be caulked with silicone.

Electrical components installed in exposed areas shall be mounted in a manner that will not allow moisture to accumulate inside.

A coil of wire must be provided behind an electrical appliance to allow them to be pulled away from mounting area for inspection and service work.

All lights in a weather exposed area that have their sockets shall have corrosion preventative compound added to the socket terminal area.

100327.1 - ELECTRICAL HARNESS AND WIRING

All wiring shall be hidden, enclosed, or protected under the body in protective material, or within the apparatus body components. In addition, split loom conduits shall be installed and enclosed, suitably secured and protected against heat and physical damage.

100090.1 - BATTERY MASTER DISCONNECT

A battery disconnect system shall be installed to control the 12 volt power supply from the battery system to the body and cab final stage manufacturer installed equipment. The solenoid shall be controlled by the standard key starter switch.

100094.4 - BATTERY CHARGER AND 120 VOLT SHORE POWER RECEPTACLE, SPECIAL DISPLAY

A Kussmaul Autocharge 1000 model #091-194X-IND-WT, high output automatic battery charger shall be provided. The battery charger shall be wired to the 12 volt battery system. The unit shall be mounted in a clean, dry area accessible for service and/or maintenance. It shall be wired to the specified shore power receptacle.

It shall include model #Model 091-194X-IND-WT Digital Status Display Center.

It shall also include model# 091-55-15-12 15 amp "auto-eject" shore power receptacle with hinged weatherproof cover and an enclosure for protection from dirt and damage. The shore power plug shall be "ejected" when the chassis' engine starter is engaged and the receptacle shall be wired to any 120 volt A/C equipment requiring shore power.

Location shall be: REAR BODY PANEL, D/S

Components wired hot: KUSSMAUL HOT TERMINAL STUD IN CONSOLE

Special: James Webb changed component. 06/21/2018 13:34

100328.1 - DOT IDENTIFICATION LIGHTS

All LED identification lights shall be installed on the vehicle as required by applicable highway regulations.

100329.1 - LICENSE PLATE MOUNTING

An LED license plate light shall be installed on the rear vertical wall of the body.

100330.1 - BRAKE, TURN, TAIL LIGHTS

Two (2) Whelen M6 Series Model M6BTT 4-5/16" x 6-3/4" brake, turn, tail lights with M6FC chrome flanges shall be provided. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthouse configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens. The lighthouses shall be surface mountable via two screws.

The lighthouses shall utilize an optic collimator and a chrome vacuum metalized reflector for maximum illumination. The lighthouse shall include 164 flash patterns including: a variety of CA Title 13 compliant, sinkable, left/right, top/bottom, in/out, and steady burn. The lighthouses shall have the Whelen exclusive NERM (Non-Emergency Recognition Mode) feature.

The lens/reflector assembly shall be wet sealed and resistant to: water, moisture, dust, and other environmental conditions. The outer lens shall have a hard coating applied to increase strength and ensure longevity. The light engine shall be installed at the rear of the unit and be completely sealed. The pc board shall be conformal coated for additional protection.

The lights shall be furnished with five 6" wire pigtailed, a Santoprene rubber gasket and the #M6FC chrome flanges shall be included for installation.

100331.1 - BACK-UP LIGHTS

Two (2) Whelen M-Series, 4" x 6" rear LED back-up lights shall be installed.

100067.1 - OFF ROAD LIGHTS

No off road lights shall be installed.

Special: James Webb changed component. 06/21/2018 13:50

100070.1 - NO BUMPER GROUND LIGHTS

There shall be no under bumper ground lights installed.

Special: James Webb changed component. 06/21/2018 13:40

200312.2 - GROUND LIGHTS, CAB, 4 DOOR, LED STRIPS

Two (2) LED ground strip lights shall be installed under the cab step area in compliance with NFPA standards, One (1) on each side of the apparatus, wired to the Cencom, and the chassis interior lights.

Special: James Webb changed component. 06/21/2018 13:52

100182.1 - GROUND LIGHTS - UNDER REAR STEP

Two (2) Grote #63871 LED ground lights shall be installed under the rear step area, one on each side of the apparatus. They shall have an aluminum housing, and be 800 lumens at 1.4 amps.

100184.1 - BODY WORK LIGHTS

Four (4) Grote #63871 LED body work lights with clear lens shall be installed, wired to switch on the Cencom. They shall have an aluminum housing, and be 800 lumens at 1.4 amps. Location shall be: in each corner of the protective tubing assembly to light the pump panel and the front body walkway area.

100318.1 - FRONT BUMPER SCENE LIGHTS

A Rigid Manufacturing E series 201213 20" spot/flood light shall be installed. The LED scene lights shall incorporate clear LED's with a clear optic polycarbonate lens for maximum illumination.

Location shall be: front bumper/grille

100713.1 - SCENE LIGHTS, FRC

Six (6) FRC SoBrite 6" scene lights shall be installed. The LED scene lights shall incorporate clear LED's with a clear optic polycarbonate lens for maximum illumination.

Location shall be: Two (2) outward facing, each side of body, two (2) rear facing.

100108.2 - BACK-UP CAMERA SYSTEM

One (1) Rear View Systems camera system shall be furnished utilizing two (2) cameras which provides a wide field of view and picture quality. A sealed camera enclosure shall be utilized along with electronic connections. The color monitor shall be installed in cab.

One (1) camera shall cover the rear of the apparatus, which will activate during back-up mode and during normal operations if needed.

Front camera location: Front bumper

Rear camera location: Tank mounted

Special: James Webb changed component. 06/21/2018 14:01

244155.2 - WIRELESS INTERCOM SYSTEM

There shall be a 4 position Setcom wireless intercom system with the driver and officer having radio transmit capability and the 2 crew having intercom only.

See Setcom Quote #921766.

100099.1 - RADIO INSTALLATION

One (1) fire radio shall be supplied by the purchaser to be installed.

100324.1 - BACK-UP ALARM

One (1) Buyers #BA107 back up alarm shall be installed.

100312.1 - ELECTRONIC SIREN

One (1) Whelen, Model #CCSRN3 CENCOM siren and twenty-one (21) auxiliary switches with noise canceling microphone shall be provided. Siren head will be mounted on the center console in easy reach of the driver.

100314.1 - SIREN SPEAKERS

Two (2) Whelen Model #SA315P, Projector Series siren speakers shall be provided with bracket. The 100 watt siren speakers shall be designed in a black nylon composite housing with 123 decibel rating.

Location shall be: Behind the front bumper.

100310.1 - MOUNTING OF LIGHT BAR WITH PROTECTIVE GUARD

The lightbar shall be mounted on the headache rack shelf with an aluminum brush guard protective assembly.

100309.1 - LIGHTBAR

A Whelen Legacy low profile Super-LED NFPA lightbar shall be installed. The 54" lightbar shall be designed to meet the minimum clearing requirements for Zone A Upper. The internal components of the lightbar shall be housed within a two piece extruded aluminum base/top. The outer shell shall be clear optic polycarbonate lenses designed to maximize light output and shield against environmental elements.

The lightbar shall utilize snap-in brackets to hold in the lighthead. The brackets shall give the end user the ability to make quick repairs. The lightbar shall have all solid state components. The lightbar shall have two wire harnesses exiting the unit: one (1) 17 conductor 22 gauge control cable which controls all internal light functions; and one (1) 2 conductor 10 gauge cable for main power and ground. Each cable shall be 15' long.

The lightbar shall have four (4) red Linear Super-LED corner modules to provide off angle protection for the front and rear of the vehicle. Each corner module shall consist of twelve (12) Super-LEDs mounted within a vacuum metalized parabolic reflector. The corner module shall also utilize an optic collimator for maximum light output. The twelve (12) LEDs shall be mounted in one straight line.

The solid state I/O board shall be microprocessor controlled. The I/O board shall have built-in reverse-polarity protection and output-short protection. The board shall have the ability to flash sixteen (16) LED warning lights. There shall be a data bank of 13 Scan-Lock flash patterns including steady burn. The board shall also have outputs to add takedown and alley lights.

Low power and cruise light function shall also be included. The cruise light function shall allow the user to employ the four (4) corner modules as marker courtesy lights.

The lightbar shall include clear "Take Down" and "Alley Lights".

The lightbar shall have an amber "Traffic Advisor" built into the rear portion of the lightbar.

100315.1 - NFPA WARNING LIGHTS

ZONE A -- LOWER FRONT WARNING LIGHTS

Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights with chrome flanges shall be in the front forward facing area of the front bumper. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthouse configuration shall consist of RED 18 Super-LEDs and a clear optic polycarbonate lens. The lighthouses shall be surface mountable via two screws. The lighthouses shall utilize an optic collimator and a chrome vacuum metalized reflector for maximum illumination.

ZONE B AND D -- INTERSECTION LIGHTS

Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights with chrome flanges shall be installed on bumper extension, as far forward as possible. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthouse configuration shall consist of RED 18 Super-LEDs and a clear optic polycarbonate lens.

ZONE B AND D -- LOWER SIDE REAR CORNER WARNING LIGHTS

Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights with chrome flange shall be installed in lower rear side corner body area. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthouse configuration shall consist of RED 18 Super-LEDs and a clear optic polycarbonate lens.

ZONE B AND D -- UPPER SIDE REAR WARNING LIGHTS

Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights with chrome flanges shall be installed in the upper rear body side panel. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthouse configuration shall consist of RED 18 Super-LEDs and a clear optic polycarbonate lens.

ZONE C -- UPPER REAR WARNING LIGHTS

Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights with chrome flanges shall be installed in the upper rear corner of the handrails. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthouse configuration shall consist of RED 18 Super-LEDs and a clear optic polycarbonate lens.

ZONE C -- LOWER REAR WARNING LIGHTS

Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights with chrome flanges shall be lower rear of body. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthouse configuration shall consist of RED 18 Super-LEDs and a clear optic polycarbonate lens.

100332.2 - CAB REFLECTIVE LETTERING

The cab lettering shall be Scotchlite reflective material, shaded in black. A quantity of up to fifty (50) three inch (3") letters shall be installed as directed by Fire Department.

The graphics shall match their previous Pierce engine.

100335.2 - CUSTOM GRAPHICS

The apparatus shall be provided with two (2) custom designed sign gold graphics, emblems, or seals. The installation shall be designed primarily with letters and numbers as specified. The purchaser shall approve of the design graphics prior to installation.

The graphics shall match their previous Pierce engine.

100338.2 - REFLECTIVE STRIPING

The sides of the vehicle shall be provided with a 1" x 4" x 1" wide 3M brand Scotchlite reflective multi-stripe. There shall be a 1" gap between each of the stripes. The striping shall be placed up to 60" above ground level and shall conform to NFPA reflectivity requirements. At least 50% of the perimeter length of each side shall have reflective striping.

The graphics shall match their previous Pierce engine.

100343.1 - FRONT CHEVRON STRIPING

There shall be alternating chevron striping installed across the front bumper where permitted. The chevron striping shall consist of 6" diamond grade in the following colors:

red
lime yellow

100345.1 - REAR CHEVRON STRIPING

There shall be alternating chevron striping installed on the rear vertical body panel. The chevron striping shall consist of 6" diamond grade in the following colors:

red
lime yellow

100346.1 - CAPACITIES PLACARD

The apparatus shall have a reflective placard that provides the following information:

Water Tank Capacity
Pump Capacities
NWCG Typing
Skeeter Contact Information

100369.1 - WATER TANK WARRANTY

MANUFACTURER'S LIMITED WARRANTY AND NOTICE OF DISCLAIMER OF EXPRESS AND IMPLIED WARRANTIES

Manufacturer issues this limited warranty to the customer who is the original retail purchaser ("Customer") of a polypropylene tank (the "Tank") (10 to 4000) gallons.

100365.1 - ROAD TEST

A road test will be conducted with the apparatus fully loaded and a continuous run of no less than ten (10) miles. During that time the apparatus will show no loss of power nor will it overheat. The transmission drive shaft or shafts and the axles will run quietly and be free of abnormal vibration or noise.

100366.1 - APPARATUS WARRANTY SKEETER MANUFACTURED ITEMS

A five (5) year parts and labor warranty on items manufactured by Skeeter Brush Trucks. Skeeter Brush Trucks is a subsidiary of Siddons/Martin Emergency Group, a Pierce Platinum Dealer, which has 13 service centers between Texas, Louisiana, and New Mexico. In the event the apparatus is deployed outside of its normal area of operation, warranty and service can be performed at any Siddons-Martin facility at the discretion of the fire department. For warranty issues please contact your local Siddons-Martin or Skeeter Brush Truck service center and request warranty from the service advisor at that location.

100362.1 - ELECTRICAL LOAD ANALYSIS

A 12 volt electrical load analysis shall be performed in order to test response and stationary modes of electrical amp load.

100363.1 - 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.

100361.1 - FIRE PUMP OPERATIONS TEST

The fire pump shall have a operational pump test performed by a Skeeter Brush Trucks technician with a run time of one (1) hour to confirm proper operations of all pump related components.

100196.1 - FINAL ASSEMBLY AND APPARATUS FINISHING PREP SPECIFICATIONS

The apparatus shall be assembled in a high quality and controlled environment. The fit, form, and finish of the body shall be to the highest level fire apparatus manufacturing standards. Upon completion, the apparatus shall be ready for final inspection and road testing as required herein.

100136.1 - SKEETER BRUSH TRUCK EMBLEMS

Three (3) Skeeter Brush Trucks emblems will be affixed to the cab and body.

100135.1 - WARNING LABEL -- NO RIDING ON REAR

A warning label stating: "NO RIDING ON REAR OF APPARATUS" shall be installed on rear of the apparatus. The label shall be applied to the vehicle at the rear step area. The label shall warn personnel that riding in or on these areas, while the vehicle is in motion, is prohibited.

100042.1 - WARNING LABEL -- SEAT BELT USAGE

A warning label for use of seat belts shall be installed in the cab by the chassis manufacturer.

100043.1 - LOUD NOISE WARNING LABEL

A final stage manufacturer shall install "hearing loss" potential warning labels on the vehicle in any areas or fixed equipment that produces excessive noise levels. (exhaust outlet, sirens and air horns shall not be required for such equipment.)

100041.1 - SEATING

There shall be a label identifying the number of seat belted locations on the unit.

100040.1 - CHASSIS PREPARATION

The chassis cab shall be "prepped" for fire apparatus production as follows:

- a) Wash and clean chassis
- b) Weigh chassis for NFPA reports
- c) Quality control check in.

100351.1 - PRE-CONSTRUCTION MEETING

A pre-construction meeting shall be conducted at the manufacturer's plant. The transportation to this meeting shall be the responsibility of purchaser.

100651.1 - DRAWINGS

There shall be design drawings submitted to the customer prior to the pre-construct conference. The drawings shall include all sides of the apparatus. The customer shall agree to the drawings reflecting the correct apparatus design and layout prior to construction.

100353.1 - TERMS OF PAYMENT AND PREPAYMENT PROVISIONS

Terms of payment for the specified vehicle shall be only cash or equivalent on delivery and acceptance for the unit. No bid will be considered which requires the purchaser to deposit with the bidder a down payment, prepayment of chassis, or any other such consideration as a condition of the bid. Such a requirement shall be grounds for immediate rejection of the bid.

100356.1 - DEMONSTRATION AND FAMILIARIZATION OF VEHICLE

The bidder shall demonstrate and familiarize the purchaser regarding the vehicle's operation. This shall include operation of chassis, major components, review of delivery information and documentation. This demonstration shall be completed at Skeeter Brush Trucks factory location in Hillsboro, Texas.

100358.1 - DELIVERY REQUIREMENTS

The apparatus shall be picked up at the manufacturer's plant by the purchaser.