



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

Submitted To:
Brad Snyder, Vice President
Skeeter 6x6 Type 3, Lifted
5845 Acton Circle Granbury, TX 76049

Specification **2359**, Job No. **14283**
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Skeeter Brush Trucks

Proposal

We are pleased to submit the following specifications to you for a **Skeeter Type 5 Rescue-Side** 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 chassis manufacturer shall provide one (1) operational manual. This manual may be in either a notebook type binder, with reference tabs or USB thumb drive with all of the printed material in an electronic format (Adobe Acrobat PDF).

191753.2 - PROTOTYPE/CONCEPT VEHICLE

The apparatus shall be manufactured for Ford Corporate/Newscope Marketing for the express purpose of testing a new design and gauging public impression. The apparatus shall be fully operational, and able to operate as a fire apparatus.

This is a prototype vehicle. Actual production design and or components are subject to change.

100044.5 - PAINT

1. Cab Color: Red
2. Cab Secondary Color: Black
3. Description: Red Over Black
4. Bumper Color: Black bed lined
5. Wheel Color: Black and Aluminum
6. Body Color: Polished Aluminum
7. Cab Steps: Black Bed Liner

100026.8 - CHASSIS SPECIFICATIONS

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

GVW: 21,000 lbs

Wheelbase: 204"

Cab to Axle: 84"

Grille: chrome

Tow Hooks: front loops

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

Transfer Case: Electronic Shift on the Fly high and low range HD front package, Automatic Hubs

Intermediate Axle and Suspension: 14,000# wide track rear axle, 7,500# suspension package, stabilizer bar,

Rear Axle and Suspension: 14,800# wide track rear axle, 7,500# suspension package, stabilizer bar,

Differential Gears: 4.88 Gears, Limited slip Rear Differential

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: 300 at 2800 rpm
- Rated Torque: 660 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 heavy 12 volt alternators

Cab Construction: XLT 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: Power, heated mirrors, tilt-telescoping wheel

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: 8-WAY Power Seat, 40/20/40 vinyl bucket type seats with three (3) point safety harness. center flip down seat back.

Split fold down rear seat

Rear Inflatable Seat Belts

Printed Manuals: one (1) printed chassis operation manual

Cab Accessories: AM/FM/CD radio, four radio speakers and antenna

Operator Controlled Manual Regen System

ADJUSTABLE GAS/BRAKE PEDAL

ALL WEATHER FLOOR MATS

RAPID HEAT SUPPLEMENTAL HEATER

ENGINE BLOCK HEATER

110V/400W OUTLET

ADVANCED SECURITY PACK

LOW DEFLECTION PACKAGE

FORD TELEMATICS BY TELOGIS

REAR VIEW CAMERA & PREP KIT

SYNC 3 Voice Activated System

Jack and Lug Wrench Set

Color: Ford Race Red

100037.2 - POWER PACKAGE

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

100046.3 - CHASSIS LIFT KIT

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.

THE SPEEDOMETER WILL NOT BE ACCURATE, AND A GPS UNIT WITH BUILT IN SPEEDOMETER SHALL BE INSTALLED.

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

100048.4 - FRONT AND REAR SUPER SINGLE TIRES AND WHEELS

There shall be six (6) super single front and rear tires, They shall be 335/80R20 22PR, severe service radial all terrain tread. The tire weight rating shall be load range "M".

There shall be four (4) wheels for the front and rear tires. They shall be 20" x 11.00" three (3) piece bolt together disc, ten (10)-hole pattern special order for Military/Government on/off road application. The weight rating of the wheels will be 11,000# each.

100053.2 - SPARE SUPER SINGLE TIRE AND WHEEL

There shall be one (1) super single spare tire, They shall be 335/80R20 22PR, severe service radial all terrain tread. The tire weight rating shall be load range "M".

There shall be one (1) wheel for the spare tire. The wheel shall be a 20" x 11.00" three (3) piece bolt together disc, ten (10)-hole pattern special order for Military/Government on/off road application. The weight rating of the wheel will be 11,000#.

100055.1 - MOUNTING SPARE TIRE AND WHEEL

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

100062.1 - FRONT BUMPER

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

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

A .250" aluminum skid plate will be installed from the bumper area extending below the bumper extension 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.

100111.1 - CAB STEPS

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

100084.1 - NO CENTER CONSOLE

No Center Console to be installed

100543.1 - 12 VOLT POWER SOURCES

Three (3) 12 volt plug-in utility power outlets rated at 15 amps shall be provided in cab. One (1) shall be installed next to the factory outlet in the dashboard and two (2) shall be installed on the rear console vertical face next to the radio speaker.

100077.2 - WINCH POWER SUPPLY

A 12 volt quick disconnect electrical receptacles shall be installed for the portable winch. Power cables shall be color coded "red" positive and "black" neutral; rated at 125% of winch power requirement including line drop; protected with conduit for mechanical abrasion and equipped with circuit breaker protection at the battery area.

Location shall be: one (1) front of the apparatus.

100662.2 - WIRELESS WINCH CONTROLLER

A Warn 90287 wireless winch controller shall be included. It shall control the winch from up to 50' away, and shall WARN truck/SUV winches with a five-wire control pack. It shall have the following features:

Easy plug-and-play installation

Sealed for protection against the elements

Activation sequence guards against accidental power-ups

Kit includes wireless transmitter, receiver, holster, lanyard and mounting hardware [More](#)

100082.4 - 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 poly rope with 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.

203756.2 - PUMP, DARLEY, 2.5 AGE 42 K

Darley model number 2-1/2AGE 42 K diesel powered, centrifugal portable pump shall be provided. The medium pressure, medium volume pump, gear driven, engine mounted shall meet the following performance requirements:

275 gpm (1040 L/M) @ 160 psi (11 bar)

175 gpm (662 L/M) @ 215 psi (14.8 bar)

75 gpm (283 L/M) @ 230 psi (15.8 bar)

Pump Design

Pump casing shall be of anodized aluminum and vertically split, with a minimum tensile strength of 33,900 PSI - bronze-fitted. Pump ratio to be selected by the manufacturer's Engineering Department. Seal rings shall be renewable, double labyrinth, wrap around bronze type. 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.

Mechanical Seal

The pump shall be furnished with a Darley maintenance free mechanical seal. The mechanical seal shall be a non-contacting, non-wearing seal design. Seal shall be a Silicon Carbide Mechanical seals with welded springs. The stationary face of mechanical seals shall be made from Silicon Carbide, and be extremely hard and of a heat dissipative material, which resists wear and dry running damage much better than conventional Ni-resist and Tungsten Carbide materials

Pump Shaft

Pump drive shaft shall be precision ground, heat treated alloy steel, with a 1-3/8 spline. Gears shall be helical design, and shall be precision ground for quiet operation and extended life. The pump shaft shall be splined to receive broached impeller

hubs, for greater resistance to wear, torsional vibration, and torque imposed by engine, as well as ease of maintenance and repair. Pump shaft to be precision-ground 416 stainless steel.

Impeller

The impeller shall be a high strength bronze alloy, splined to the pump shaft for precision fit, durability, and ease of maintenance.

Impeller shaft oil seals shall be constructed to be free from steel components except for the internal lip spring. The impeller shaft oil seals shall carry a lifetime warranty against damage from corrosion from water and other fire-fighting fluids.

Pump Transmission

The transmission case shall be cast iron aluminum with adequate oil reserve capacity to maintain low operating temperature. Pump ratio to be selected by the manufacturer's engineering department. Gears shall be helical in design and precision ground for quiet operation and extended life. Gears to be cut from high strength alloy steel and heat treated. Gear face to be minimum of 1-1/2". Chain drive and/or design requiring extra lubricating pump is not acceptable.

The pump unit shall be supplied with a control panel for remote mounting, panel light, hour meter / tachometer, pressure gauge, on/off ignition switch, and a low oil pressure light, engine choke, engine throttle

Dimensions & Weight

41"L x 24"W x 42 1/2"H, 528 lbs. (240 kg)

Suction - 2.5" NPTF

Documentation

Pump Warranty/Guarantee to be included with each proposal. Pump warranty shall be for three (3) years. Additional details about the warranty can be found in the Skeeter user's manual of this vehicle.

Engine

Kubota V1505 Diesel: 42 HP turbo diesel, 4 cylinders, liquid-cooled, 12-volt, electric start, 40 amp alternator, pressure lubed, oil and fuel pump filters

There shall be an electric oil less primer assembly installed for the auxiliary fire pump. The electric primer assembly shall be capable of taking suction and discharging water with a lift of 10 feet in not more than 30 seconds with the pump dry, through 20 feet of suction hose of appropriate size. A vacuum test with a capped suction of at least 20' long shall develop 22" of vacuum and hold a vacuum with a drop not in excess of 10" in 5 minutes. Priming pump shall be activated by a mechanical/electric valve with a single pull control located at the pump operator's panel area.

100423.1 - THERMAL RELIEF UNIT

There shall be a Trident model brass thermal relief valve installed in the manifold allowing auto dump at 143° water temperature. The thermal relief valve shall auto close at 118° water temperature. There shall be a hose directing water under the body, but in a location visible by the pump operator.

100272.4 - PLUMBING SYSTEM TRIDENT

The auxiliary fire pump plumbing system shall be built mostly of Trident aluminum 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.

100285.2 - 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.

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.

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

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

100418.3 - REMOTE PUMP CONTROL FOB

There shall be a remote control key FOB that will control the pump throttle from up to 200' away from the apparatus.

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.

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.

100254.1 - PUMP ENGINE OIL DRAIN

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

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.

100441.1 - FRONT OF BODY DISCHARGE (THROUGH THE TANK)

A 1.5" discharge shall be piped from the rear pump area to the front on the body. A 1.5" master control valve shall be installed at the rear pump manifold area with direct control handle.

100288.1 - HOSE REEL

One (1) Hannay aluminum hose reel shall be installed. The reel shall have leak proof ball bearing swing joint, adjustable friction brake, electric 12 volt rewind and manual crank rewind provisions.

The reel shall be mounted on the driver's side rear corner of the flatbed body.

100291.1 - REEL CAPACITY

The hose reel shall have a capacity of 200 feet of hose.

100295.1 - HOSE REEL DISCHARGE

One (1) 1" discharge shall be piped from the fire pump to the hose reel with flexible high pressure hose. The quarter turn ball valve shall be on manifold.

100302.1 - NOZZLE MOUNT

Each 1" flexible hose discharge shall have a nozzle bracket installed to hold the nozzle in place.

100299.2 - HOSE REEL HOSE

One (1) 150' foot length of 1" water hose shall be installed on the hose reel. The hose shall be equipped with NH threaded couplings and have a 300 PSI working pressure.

100280.2 - 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 sweeps 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.

100279.3 - FRONT BUMPER MONITOR

One (1) Akron 3462 Forestry Monitor with quick disconnect (34621103, FM 2NPTX1.5NH, 12V, 125NZ, JY, QD, VLV, RED) shall be installed. The remote monitor shall be located on the front bumper of the apparatus. The monitor shall be an all-electric single waterway monitor constructed of lightweight Pyrolite, with a 2" electric valve.

The monitor shall have a fully enclosed 12-volt motor and gears with a manual override for both horizontal and vertical rotation and may be operated simultaneously. The vertical travel shall be from 45-degrees below to 90-degrees above horizontal with adjustable stops at -20 degrees and +45 degrees. The horizontal rotation shall be 320-degrees with adjustable stops at +/-90-degrees.

The logic box shall include coated, solid state components to resist water corrosion. The control joystick shall control the vertical and horizontal rotation of the monitor and the pattern of the nozzle.

The nozzle shall be 30-125 gpm adjustable.

The Akron "FireFox" monitor shall include a weather-tight enclosure and joystick controls mounted on the center cab console area. The joystick control shall include a valve trigger and following controls functions:

Water Valve: ON/OFF

Monitor: RIGHT/LEFT

Monitor: UP/DOWN

Pattern Control: STRAIGHT/FOG

100424.1 - FOAM SYSTEM

A Trident Foamate ATP 1.0 foam proportioner shall be installed. The unit shall be adjustable, permitting various foam ratio percentages to be deducted depending on the nozzles in use. It shall have a foam capacity of up to 400 gpm. Foam selection percentages between .1 and 1% shall be available. The foam system has been designed for simplicity of operation and maintenance. A flush system shall be installed.

100202.1 - WATER TANK SPECIFICATIONS

The water tank shall have a capacity of 500 gallons.

100205.1 - NFPA COMPLIANCE

The water tank construction shall conform to applicable NFPA standards.

100206.2 - 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.

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 bottom of the water tank, sump, or plumbing for water tank draining and flush-out of debris.

100227.1 - FOAM TANK SPECIFICATIONS

The Class A foam tank shall have a capacity of 10 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.

100113.3 - 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 22 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 polished aluminum tread plate. 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.

100141.10 - FRONT BODY TRANSVERSE COMPARTMENT

A transverse compartment 96" long x 32" wide x 24" high will be installed in front of the water tank. The compartment shall have swing doors on each end.

The compartment floor shall be lined with Turtle Tile.

100145.2 - DRIVERS SIDE UPPER BODY COMPARTMENT

A body equipment storage compartment shall be installed on the flatbed surface, driver's side of the apparatus. The dimensions shall be approximately 67" wide, 24" high, and 18" deep. The compartment shall be constructed of .125" aluminum tread plate on all exterior surfaces. The compartment shall be equipped with a roll-up door with latch installed. Turtle tile shall be installed on the floor.

100149.2 - PASSENGERS SIDE UPPER BODY COMPARTMENT

A body equipment storage compartment shall be installed on the flatbed surface, passenger's side of the apparatus. The dimensions shall be approximately 67" wide, 24" high, and 18" deep. The compartment shall be constructed of .125" aluminum tread plate on all exterior surfaces. The compartment shall be equipped with a roll-up door with latch installed. Turtle tile shall be installed on the floor.

100585.1 - UNDER BODY COMPARTMENTS -- REAR BODY, D/S AND P/S

Two (2) under flat bed equipment storage compartments shall be installed under the flatbed surface, on the passenger's and driver's side of the apparatus, behind the rear axle. The dimensions shall be approximately: 20" wide, 15" high, and 22" deep. The compartments shall be constructed of .125" aluminum tread plate on all exterior surfaces. The compartments shall be equipped with a vertically hinged door with latch installed. The compartment shall have turtle tile installed.

100159.2 - 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 dimensions shall be approximately: 33" wide, 6" high, and 96" front to rear. The compartment shall be by 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.

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.

100160.1 - INTERIOR COMPARTMENT VENTILATION LOUVERS

Compartments shall be provided with louvered ventilation units.

191744.2 - SLIDE OUT TRAY

There shall be a Cargo Glide C-CG100 slide out tray in the front transverse compartment. It shall slide out to the passenger's side of the body. It shall be designed to hold Rescue Tools.

100655.2 - PAC TRACK PANELS (3)

There shall be PAC Trac extruded mounting panels installed in the middle of the transverse side out tray.

There shall be PAC Trac extruded mounting panels installed on the back wall of the driver's and passenger's side horizontal compartments.

100656.2 - HANDLELOK BRACKETS

There shall be Handlelok PAC-1004 bracket(s) installed on the tool boards.

100161.1 - COMPARTMENT DOOR KEY LOCKS

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

100720.2 - COMPARTMENT LIGHTING, STRIP LIGHTS

Each upper body compartment shall be equipped with a red LED strip light, installed on each side of the door opening.

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" or equipment operation warning light shall be installed on cab dash. The light shall be flashing red LED light with a clear lens.

100169.2 - 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 dimensions shall be approximately: 16" wide, 12" high, and 72" long. The hose tray shall be constructed entirely of .125" aluminum tread plate on all exterior surfaces. The assembly shall be equipped with a hinged lift up aluminum tread plate door on top, enclosed front panel, and open rear area. The hose tray shall be equipped with Turtle Tile floor covering.

100382.2 - 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 dimensions shall be approximately: 16" wide, 12" high, and 72" long. The compartment shall be constructed of .125" aluminum tread plate on all exterior surfaces. The compartment shall be equipped with a hinged lift up aluminum tread plate door with a latch installed. The compartment shall be equipped with Turtle Tile floor covering.

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 a removable 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 and 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 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.

100094.2 - BATTERY CHARGER AND 120 VOLT SHORE POWER RECEPTACLE

A Kussmaul Autocharge 1000 model #091-215-12-194B, 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 a 091-194-IND Digital Status Display Center installed.

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

Location shall be: On the rear bed panel, driver's side, beneath M7.

Components wired hot: Determined at pre-construct conference

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.

100330.2 - 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 pigtails, a Santoprene rubber gasket and the #M6FC chrome flanges shall be included for installation.

100331.2 - BACK-UP LIGHTS

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

100068.1 - OFF-ROAD LIGHTS

There shall be two (2) Warn 4" HID (High Intensity Discharge) lights installed on front bumper/grille guard.

100071.1 - GROUND LIGHTS - FRONT BUMPER

Two (2) Grote #61E41 LED ground lights shall be installed under the front bumper, one (1) on each side of the apparatus, wired to a switch in the cab.

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 a switch in the cab.

100182.1 - GROUND LIGHTS - UNDER REAR STEP

Two (2) Grote #61E41 LED ground lights shall be installed under the rear step area, one on each side of the apparatus.

100184.1 - WORK LIGHTS

Four (4) Grote #61E41 LED step lights with clear lens shall be installed, wired to switch on the Cencom. Location shall be: in each corner of the protective tubing assembly to light the pump panel and the front body walkway area.

100318.2 - FRONT BUMPER SCENE LIGHT

A Whelen 20" spot/flood light shall be installed. The LED scene light shall incorporate clear LED's with a clear optic polycarbonate lens for maximum illumination.

Location shall be: front bumper/grille

190767.2 - LIGHT TOWER

A Command Light model #KL415D-W2 shall be installed on top of the water tank. It shall be 12 volt, 60 amps, and have four (4) LED light head. The light tower shall have 16,000 total lumens, and extend vertically 87.5" when deployed. It shall be capable of full 360 degree rotation, and have pan and tilt.

There shall be a tethered remote control for the tower.

100323.3 - MONITOR SPOT LIGHT

A Whelen spot light shall be installed. The LED light shall incorporate clear LED's with a clear optic polycarbonate lens for maximum illumination.

Location shall be: On the front monitor

100433.2 - SCENE LIGHTS

Six (6) Whelen Model PFP1 Pioneer scene lights shall be installed. The flood-type scene lights shall be 75 watts 12 volts. The lights shall incorporate clear 3/16" LED's with a clear optic polycarbonate lens for maximum illumination.

Location shall be: two (2) each body sides, two (2) rear facing

100324.1 - BACK-UP ALARM

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

100312.3 - ELECTRONIC SIREN

One (1) Whelen, CENCOM Saphire siren and twenty-one (21) auxiliary switches with noise canceling microphone shall be provided. Siren head will be mounted low on the front dash in easy reach of the driver.

100313.2 - SIREN SPEAKER

One (1) Whelen Model #SA315P Projector Series siren speaker shall be provided with bracket. The 100 watt siren speaker 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 cab light bar shall be mounted on the headache rack shelf with an aluminum brush guard protective assembly.

100309.3 - 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 light bar shall be RED/BBLUE split.

The lightbar shall utilize snap-in brackets to hold in the lightheads. 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/blue 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.

100315.6 - NFPA WARNING LIGHTS (RED/BBLUE)

ZONE A -- LOWER FRONT WARNING LIGHTS

Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights and a chrome flange 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 lighthead configuration shall consist of 18 red/blue Super-LEDs and a clear optic polycarbonate lens. The lightheads shall be surface mountable via two screws. The lightheads 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 #M7R 3" x 7" warning lights and a chrome flange shall be installed on bumper extension, as far forward as possible. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthead

configuration shall consist of 18 red/blue 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 #M7R 3" x 7" warning lights and a 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 18 red/blue 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 #M7R 3" x 7" warning lights and a 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 18 red/blue Super-LEDs and a clear optic polycarbonate lens.

ZONE B AND D -- LOWER MID WARNING LIGHTS

Two (2) Whelen M-7 Series Model #M7R 3" x 7" warning lights and a chrome flange 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 18 red/blue Super-LEDs and a clear optic polycarbonate lens.

ZONE B AND D -- UPPER MID WARNING LIGHTS

Two (2) Whelen M-7 Series Model #M7R 3" x 7" warning lights and a chrome flange 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 18 red/blue Super-LEDs and a clear optic polycarbonate lens.

ZONE B AND D -- LOWER FENDER WARNING LIGHTS

Two (2) Whelen M-7 Series Model #M7R 3" x 7" warning lights and a chrome flange 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 18 red/blue Super-LEDs and a clear optic polycarbonate lens.

ZONE C -- UPPER REAR WARNING LIGHTS

Two (2) Whelen M-7 Series Model #M7R 3" x 7" warning lights and a chrome flange 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 18 red/blue Super-LEDs and a clear optic polycarbonate lens.

ZONE C -- LOWER REAR WARNING LIGHTS

Two (2) Whelen M-7 Series Model #M7R 3" x 7" warning lights and a chrome flange shall be lower rear of body. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthouse configuration shall consist of 18 red/blue Super-LEDs and a clear optic polycarbonate lens.

100332.2 - CAB LETTERING

There shall be a custom graphics package installed.

100335.3 - CUSTOM GRAPHICS

The apparatus shall be provided with three (3) custom designed Ford emblems.

100337.1 - CAB AND BODY STRIPING

The cab and body shall have a straight Scotchlite reflective stripe applied horizontally. The stripe shall be a 4" minimum in width and be applied horizontally around the cab and body in accordance with NFPA standards. The purchaser shall specify the color and location of the stripe.

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 striping.

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 striping.

100346.1 - CAPACITIES PLACARD

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

Water Tank Capacity

100350.2 - SPANNER AND HYDRANT WRENCH SET WITH MOUNTING BRACKET

One (1) Kocheck lightweight spanner wrench holder shall be installed. The bracket shall hold one (1) hydrant wrench and two (2) universal spanners. It shall be mounted on the rear driver's side under body compartment.

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.

100041.1 - SEATING

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

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.)

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.

100136.1 - SKEETER BRUSH TRUCK EMBLEMS

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

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. On completion, the apparatus shall be totally ready for final inspection and road testing as required by the general requirement section for this specified vehicle.

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.

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.

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 operational, 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.

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.

Manufacturer's specific warranty will be issued at pre-construction meeting.

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.

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.