



Demo Flat bed Brush Truck

Gentlemen:

We hereby propose to furnish, after your acceptance, approval, and proper execution of the accompanying contract, the fire apparatus as follows:

One (1) Alexis Flat Bed Brush Truck

As per specifications attached herewith.

TOTAL APPARATUS.....\$ *

* Does not include any applicable taxes. Any local or state tax, if applicable, must be added to the above price.

Shipment of completed apparatus shall be made within 330 calendar days after our approval of properly signed contract, subject to causes beyond our control. This proposal is made subject to your acceptance within thirty (30) days from date of same. If acceptance is delayed beyond that period, we will, upon request, advise you of any increase in said amount which may be occasioned by causes beyond our control.

Respectfully submitted,
ALEXIS FIRE EQUIPMENT COMPANY

By: _____

"QUALITY HAS NO SUBSTITUTE"



PAYMENT TERMS

OPTION 1

The chassis payment shall be made within ten (10) days of invoicing.

A progress payment of \$ shall be made within ten (10) days of invoicing, upon the initial construction of the apparatus body.

The balance of the contract plus any contract alterations shall be payable upon the delivery of the finished unit.

Upon payment, the Alexis Fire Equipment Company shall furnish the purchaser a "Statement of Origin" or the necessary validated documents required for title application.

OPTION 2

An up-front payment of \$ shall be made within ten (10) days of contract signing. The ___ Fire Department may **DEDUCT** \$ from the front page price for this payment.

The balance of the contract plus any contract alterations shall be payable upon the delivery of the finished unit.

Upon payment, the Alexis Fire Equipment Company shall furnish the purchaser a "Statement of Origin" or the necessary validated documents required for title application.

Additional payment terms available upon request.



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ISO 9001:

Alexis Fire Equipment Company operates a Quality Management System under the requirements of ISO 9001. These standards, sponsored by the "International Organization for Standardization (ISO)," specify the quality systems that shall be established by the manufacturer for design, manufacture, installation and service.



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DIGITAL PHOTOGRAPHS:

Digital photographs of apparatus under construction are taken on a weekly basis and emailed to a department supplied email address. Additionally, these photos are uploaded to our website at www.alexisfire.com allowing those department members who may not have access to the emailed photos to track the progress of the unit.



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SERVICE CENTER:

The Alexis Priority-One service team is staffed with factory trained mechanics ready to meet your service requirements. Our staff is continually working on maintaining updated EVT and ASE certification.

The Alexis Service Team is available 24 hours a day, 7 days a week for your service emergencies. We use the latest paging system for fast, efficient and reliable service.

Our service facility covers an area of approximately 14,000 square feet.

The Alexis Service Team can assist you in fire apparatus service, ambulance service, aerial device maintenance, generator and rescue tool maintenance and service, and air pack inspections. Our staff can provide our customers with a complete apparatus training program, meeting the latest training requirements.

Alexis is a single source warranty center for the following manufacturers: HME, Spartan Motors, Hale Products, and Waterous.

Our service team has over 50 years of cumulative experience in the fire service industry. In addition, they are backed by our fabrication, electrical, and paint and finish departments. This combination of training and hands-on experience offers true reliability and dependability.

Alexis keeps detailed documentation of all repair, maintenance, and inspection performed by our personnel. With time and manpower at such a premium among many fire departments, why not allow the Alexis Service Team to set up and maintain records for your fleet?

The Alexis Service Team is committed to providing prompt and courteous service, quality products and fair pricing.

Business: Alexis Fire Equipment Company

Contact Person: Barb Lafferty

Location: 109 East Broadway Alexis, IL 61412

Phone: **800-322-2284**



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DELIVERY:

To insure proper break-in of all drive train components while under warranty, the finished apparatus shall be delivered to the purchaser under its own power.

The apparatus shall be covered by comprehensive and liability insurance during the delivery period. The purchaser shall assume the insurance obligation on acceptance. At that time, the purchaser shall present to the manufacturer's agent a certificate of verification, showing liability, comprehensive, and collision insurance coverage.

A qualified representative shall remain in the department a sufficient length of time to demonstrate the operation, care and maintenance of the equipment to one (1) shift of personnel.



GENERAL INFORMATION:

LOCATION

The Alexis Fire Equipment facilities are located at 109 East Broadway, Alexis, Illinois 61412. We maintain a complete stock of parts and services available around-the-clock. We also propose to maintain parts and service for a minimum period of twenty (20) years on all apparatus which is manufactured.

NOTATION

To further assure the customer of our ability to manufacture quality fire apparatus, we are proud of the fact that Alexis Fire Equipment Company is family-owned and has been in the fire apparatus business since 1947.

PERSONNEL CAPACITIES

To meet the spirit of N.F.P.A. 1500 paragraph 6.3.1, this apparatus has been designed to transport not more than two (2) people.

6.3 Riding in Fire Apparatus

6.3.1 All persons riding in fire apparatus shall be seated and belted securely to the vehicle by seat belts in approved riding positions and at any time the vehicle is in motion. Standing or riding on tailsteps, sidesteps, running boards or in any other exposed position shall be specifically prohibited.

MAXIMUM TOP SPEED:

To meet the intent of NFPA 1901 4.15.2, the top speed of the vehicle shall not exceed 68 MPH or the manufacturer's maximum fire service speed rating for the tires installed on the apparatus, whichever is lower.

INFORMATION TO BE PROVIDED:

Alexis Fire Equipment Company shall supply, at the time of delivery, the following documents:

- A) The manufacturer's record of apparatus construction details, including the following information:
 - 1. Owner's name and address



2. Apparatus manufacturer, model, and serial number.
 3. Chassis make, model, and serial number.
 4. GAWR of front and rear axles.
 5. Front tire size and total rated capacity in pounds.
 6. Rear tire size and total rated capacity in pounds.
 7. Chassis weight distribution in pounds with water and manufacturer mounted equipment.
 8. Engine make, model, serial number, number of cylinders, bore, stroke, displacement and compression ratio, rated horsepower and related speed, and no-load governed speed.
 9. Type of fuel and fuel tank capacity.
 10. Electrical system voltage and alternator output in amps.
 11. Battery make and model, capacity in CCA.
 12. Transmission make, model, and type.
 13. Pump to drive through the transmission (yes or no)
 14. Engine to pump gear ratio used
 15. Pump make, model, rated capacity in g.p.m., serial number, number of stages, and impeller diameter in inches.
 16. Pump transmission make, model, and serial number.
 17. Priming device type.
 18. Type of pump pressure control system.
 19. Auxiliary pump make, model, rated capacity in g.p.m., serial number, number of stages, and impeller diameter in inches.
 20. Water tank certified capacity in gallons.
 21. Aerial device type, rated vertical height in feet, rated horizontal reach in feet, and rated capacity in pounds.
 22. Paint numbers
 23. Company name and signature of responsible company executive.
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- B) If the apparatus has a fire pump, the pump manufacturer's certification of suction capability.
 - C) If the apparatus has a fire pump, a copy of the apparatus manufacturer's approval for stationary pumping applications.
 - D) If the apparatus has a fire pump, the engine manufacturer's certified brake horsepower curve for the engine furnished, showing the maximum no-load governed speed.
 - E) If the apparatus has a fire pump, the pump manufacturer's certification of hydrostatic test.
 - F) If the apparatus has a fire pump, the certification of inspection and test for the fire pump.
 - G) If the apparatus has an aerial device, the certification of inspection and test for the aerial device.
 - H) If the apparatus has an aerial device, all the technical information required for inspections to comply with NFPA.
 - I) Weight documents from a certified scale - showing actual loading on the front axle, rear axle(s), and overall vehicle (with the water tank full but without personnel, equipment, and hose) - shall be supplied with the completed vehicle.
 - J) Written load analysis and results of the electrical system performance tests.



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- K) If the apparatus is equipped with a water tank, the certification of water tank capacity.
- L) If the apparatus has a fire pump, two (2) copies of the pump operation and maintenance manual.
- M) Two (2) destination effective wiring diagrams.
- N) Copies of electrical and mechanical component manuals for equipment purchased on or with the apparatus.
- O) A sketch of the booster tank indicating all dimensions and baffle locations.
- P) If the apparatus has a pump, one (1) certification of third party test

WARRANTY:

Alexis Fire Equipment Co., Inc. warrants each new piece of fire and rescue apparatus manufactured by Alexis to be free from defects in material and workmanship under normal use and service for a period of one year from the date of delivery. Our obligation under this warranty is limited to furnish any parts to replace those that have failed due to defective material or workmanship, as the company may elect, provided that such part, or parts shall be returned to us not later than one year after delivery of such vehicle. All water tanks will be warranted as stated herein and may have extended warranty as explained elsewhere in the Alexis Fire Equipment Co. Proposal.

This warranty will not apply:

- 24. To normal maintenance services including, but not limited to, electrical lamps, valve seals, normal lubrication and/or proper adjustment of minor items.
- 25. To any vehicle which shall have been repaired or altered outside of our factory, in any way so as, in our judgment, to affect its stability, nor which has been subject to misuse, negligence, or accident, nor to any vehicle made by us which shall have been operated at a speed exceeding the factory rated speed, or loaded beyond the factory rated load capacity.
- 26. To the chassis and associated equipment furnished with chassis, signaling device, generators, batteries or other trade accessories. These are warranted separately by their respective manufacturers.
- 27. To work performed by an outside service without prior authorization obtained from Alexis Fire Equipment.
- 28. To costs incurred from an outside service for non-warranty related items.

This warranty is in lieu of all other warranties, expressed or implied, and all other representations to the original purchaser and all other obligations or liabilities, including liability for incidental or consequential damages on the part of the company. We neither assume nor authorize any person to give or assume any other warranty or liability on the company's behalf unless made or assumed in writing by



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the company.

LENGTH AND/OR HEIGHT LIMITATIONS:

OVERALL HEIGHT:

The OAH of the unit shall not exceed _____".

OVERALL LENGTH:

The OAL of the unit shall not exceed _____".

CHASSIS:

The following chassis shall be furnished by Alexis Fire Equipment Company.

Upon its receipt, we shall thoroughly inspect the chassis.

FORD F-550 REGULAR CAB 4 X 4 DRW CHASSIS - 60" CAB TO AXLE:

POWERTRAIN:

Powerstroke 6.4L V-8 OHV direct diesel injection 32 valve twin turbo diesel engine * 135 amp dual alternator * 750 amp 78 amp hours (Ah) battery dual batteries * Engine block heater, transmission oil cooler * 5-speed electronic automatic transmission with overdrive, lock-up, driver selection * Part-time four-wheel drive with manual transfer case shift, manual locking hubs * 4.88 axle ratio * Stainless steel exhaust

STEERING AND SUSPENSION:

Hydraulic power-assist re-circulating ball steering * 4 wheel disc brakes with front and rear vented discs * Firm ride suspension * Non-independent front suspension * Front anti-roll bar * Front coil springs * HD front shocks * Rigid rear axle * Rear leaf suspension * Rear anti-roll bar * HD rear leaf springs * HD rear shocks * Front and rear 19.5" x 6.00" argent steel wheels * LT225/70SR19.5 BSW AT front and rear tires * Timbren Load Absorbers on the rear suspension * 19,000 GVWR * 7,000 FAWR * 13,500 RAWR

SAFETY:

4-wheel anti-lock braking system * Dual airbags * Front height adjustable seatbelts



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COMFORT AND CONVENIENCE:

Air conditioning * AM/FM stereo, clock, seek-scan, 2 speakers, fixed antenna * 2 12V DC power outlets, ashtray, front lighter element(s) location * Analog instrumentation display includes tachometer, oil pressure gauge, engine temperature gauge, turbo/supercharger boost gauge, transmission fluid temp gauge, engine hour meter, trip odometer * Warning indicators include oil pressure, engine temperature, battery, key in ignition, low fuel, door ajar * Manual front windows with light tint * Variable intermittent front windshield wipers * Passenger side vanity mirror * Day-night rearview mirror * Interior lights include dome light with delay, front reading lights * Glove box, front cupholder, instrument panel bin, dashboard storage

SEATING AND INTERIOR:

Seating capacity of 3 * Bucket front seats with fixed head restraints * 4-way adjustable driver seat * 4-way adjustable passenger seat * Vinyl faced front seats with vinyl back material * Full cloth headliner, full vinyl/rubber floor covering, plastic/rubber gear shift knob, cabback insulator, chrome interior accents

EXTERIOR FEATURES:

Side impact bars, front license plate bracket, fully galvanized steel body material * Black fender flares * Black side window moldings, black front windshield molding, black rear window molding * Black door handles * Black grille * 2 doors * Trailer harness * Driver and passenger manual black folding outside mirrors * Front argent bumper with front black rub strip, black bumper insert, front tow hooks * Aero-composite halogen headlamps * Additional exterior lights include cab clearance lights, underhood light * Clearcoat monotone paint

STAINLESS STEEL RUNNING BOARDS:

One (1) set of Luverne stainless steel running boards, Model 549225, shall be installed under the chassis cab doors. Running boards shall be 18 ga. stainless steel with 6" x 24" step pads at the vehicle's entrance.

MUD FLAPS:

Each rear fender shall be extended with a black rubber mud flap, thus preventing splash and road debris from damaging the apparatus body. One (1) half mud flap shall be installed at the front of the rear wheel to prevent front spray.

WHEEL DRESS FULL WHEEL LINERS:



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The front and rear wheels shall be dressed with polished, stainless steel wheel liners, hub covers and lug nut covers. Realwheels Model RW1600-2AK.

INTERCONNECTED PUMP FUEL:

The pump fuel system shall be interconnected with the chassis fuel system.

BODY:

One (1) custom Fire Application aluminum flat bed body, 110" (9'2") long x 94-5/8" wide. The aluminum plate used in construction is .100" 3003-H22 polished aluminum alloy treadplate.

Body sub-frame is made from 6061-T6 aluminum tubes and channels. Sub-frame crossmembers are installed every 16". The channel is 1-1/2" wide x 3" high x 3/16" thick. The body crossmembers shall extend the full width to support the compartment framing and shall be welded to the sub-frame main members.

The Body sub-frame main members consist of 6061-T6 Aluminum square tubing of 2" wide x 6" high x 3/16" thick.

The light bar will be fixed to a polypropylene tubular mount that is the same height as the cab of the truck. The uprights will be angled inward to match the aerodynamic contour of the chassis cab.

The perimeter shall be made with 1/8" thick forged 3003H14 Aluminum. Forged aluminium brings a strong design that was specially made to embed emergency lighting & designed to fit properly a 4" reflective stripping.

The body shall be attached to the chassis rails with a minimum of four (4) heavy duty "U" bolts (Shipped loose). The body shall be separated from the chassis by 3/8" Teflon (Shipped loose). Attachment of the body and sub-frame will allow the body to resist from all distortion and off road operational condition.

The body is a modular design to allow removal from the chassis for major repair or mounting on a new chassis. Isolating material between the body and the chassis to be installed

All welding shall be done electrically using 5356 aluminum welding wire.

Rear vertical skirt will be made from 1/8" 3003-H22 polished aluminum alloy treadplate.

Rear skirt to include Signal, brake, reverse lights, D.O.T., license plate & NFPA steps.



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Clearance, marker, license plate lights and reflectors will be furnished and installed per D.O.T.. Junction box supplied and installed under the flat bed.

License plate light shall be an Eon light with SS polish case that has a light output equivalent to a 10 watt halogen lamp. Eon light to have a 50,000 hr LED life.

LED Signal, brake and reverse lights will be High Quality Grote Automotive lights recessed mount into rear aluminum skirt area of body per FMVSS 108 and CMVSS 108 requirements. Light to be LED Oval with chromed housing.

Two (2) LED Amber marker/clearance lights with chrome housing and clear lens will be installed on the front side of the bed, one (1) each side. Two (2) LED Red marker/clearance lights with chrome housing and clear lens will be installed on the rear side of the bed, one (1) each side. Three (3) LED Red marker/clearance lights with chrome housing and clear lens will be installed at the rear center of the bed. Amber & Red reflectors shall be installed around the perimeter of the bed as per DOT requirement.

One (1) back-up alarm that meets the type D (97 dba) requirements of SAEJ994 shall be provided at the rear of the apparatus. It will activate when the transmission is placed in reverse. Back-up alarm to be wired to the flat bed junction box.

Rear rubber mud flaps not provided.

Two (2) heavy duty tow eyes shall be installed at the rear of the body (NFPA 1906 requirement). The tow eyes will be fastened directly to each rear chassis frame rail. Hardware shall have a clear and unobstructed access (Shipped loose).

The rear of the flat bed shall have two (2) non-skid rear steps for access to pump and controls. The rear steps shall be made so it can be folded up for use in rough terrain. All steps shall sustain a minimum static load of 500 lb (227 kg) without deformation (NFPA 1906 & 1901 compliant). Stepping height from the ground to the first step shall not exceed 24".

Access handrails shall be provided where steps for climbing are located.

An angle of approach and an angle of departure of at least 20 degrees shall be maintained at the front and the rear of the vehicle when it is loaded.

This will be no exception to the body specifications. Pre-built commercial flat bed bodies are not acceptable.

Compartments



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All compartments will be made with ½” polypropylene sheet.

All compartments shall have a minimum of one (1) louvered panel bolted into a wall to provide the proper airflow inside the compartment.

All compartments shall be of sweep-out type with no lip at bottom edge for easy cleaning.

All compartments floors will be covered with Plastic Tiles. The tiles shall be black with yellow angled leading edges.

All door lock mechanisms shall be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside into the lock area.

Transverse compartment

One (1) transverse compartment of 13-1/2” long x 22” high x 94” transverse. Each side door to be horizontally hinged, drop down style with retaining cables.

The overlap polypropylene compartment doors shall be securely attached to the body with a full stainless steel hinge. Door openings shall be fitted with solid neoprene weather strip completely sealing the perimeter of the compartment door opening. Lift up door shall be installed with gas hold open struts. Compartment door seams is sealed with a pliable automotive body caulking. The compartment doors is latched with recessed, polished stainless steel ‘D’ ring handles and locks.

Custom made compartment to be designed to hold eight (8) shovels & eight (8) Rakes.

Right (Passenger) Side Compartment

One (1) 62” long x 30” high x 22” deep compartments behind the chassis, located at the right (passenger) side of the water tank.

Compartment door shall be equipped with Amdor brand roll-up doors complete with the following features: door ajar switch, LED Lumabar light, aluminum double wall slats with continuous ball & socket hinge joint and recessed slat seal, double wall reinforced bottom panel with stainless steel lift bar latching system, reusable slat shoes with positive snap-in securement, one-piece aluminum door track / side frame, top gutter with non-marring seal, non-marring side seals, bottom seal, with all wear component material to be Type 6 Nylon. Roll-up doors to be anodized gray.

One (1) Adjustable shelf to be installed



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There shall be a set of tracks for future installation of adjustable shelf(s) in each compartment. These tracks shall be installed vertically on the walls of the compartment(s) and shall offer a multitude of height adjustment possibilities.

Under each shelf, two (2) sets of clips shall be installed to hold two (2) brush brooms under each tray.

One (1) switch shall be installed so the compartment light(s) shall come on only when compartment door is open.

Left (Driver) Side Compartment

One (1) 84'' long x 30'' high x 22'' deep compartments behind the chassis, located at the left (driver) side of the water tank.

There shall be two (2) compartment doors for this compartment. One (1) middle inside divider shall be installed.

Compartment doors (2) shall be equipped with Amdor brand roll-up doors complete with the following features: door ajar switch, LED Lumabar light, aluminum double wall slats with continuous ball & socket hinge joint and recessed slat seal, double wall reinforced bottom panel with stainless steel lift bar latching system, reusable slat shoes with positive snap-in securement, one-piece aluminum door track / side frame, top gutter with non-marring seal, non-marring side seals, bottom seal, with all wear component material to be Type 6 Nylon. Roll-up doors to be anodized gray.

One (1) Adjustable shelf to be installed in the left side of this compartment.

There shall be a set of tracks for future installation of adjustable shelf(s) in each compartment. These tracks shall be installed vertically on the walls of the compartment(s) and shall offer a multitude of height adjustment possibilities.

Under each shelf, two (2) sets of clips shall be installed to hold two (2) brush brooms under each tray.

One (1) switch shall be installed so the compartment light(s) shall come on only when compartment door is open.

Rear Storage Compartment

One (1) integrated to the platform compartment approximately 5'' high x 24'' wide x 104'' long for suction hose storage and folding ladders or pike poles. A flip down horizontally hinges door is furnished at the rear. The interior compartments is made from polished 3003-H14 alloy smooth plate. Steel frame underneath Drop-In-Unit shall not be acceptable



Left side Integrated Pre-connect hose tray

Integrated on the left side of the flat bed body, one (1) enclosed pre-connected hose tray made from aluminium to hold a minimum of 250' of 1-3/4" hose.

Hose Tray to have a flip down door with latches. Tray design shall allow hoses to pay out in any direction and quick hose storage when finished.

Hose tray shall have a 1-1/2" Pre-Connect elbow.

The area shall be designed to prevent the accumulation of water and allow for ventilation to aid in drying hose in the storage area. Black Turtle Tiles to be installed and bolted on the floor.

1.5" Discharge to Pre-connected Hose tray

One (1) 1.5" valve piped from the discharge manifold to the hose tray. The valve shall be an industrial, quarter turn swing out valve with a handle and be connected to the hose tray by high pressure flexible plumbing.

Right side Integrated Pre-connect hose tray

Integrated on the right side of the flat bed body, one (1) enclosed pre-connected hose tray made from aluminium to hold a minimum of 250' of 1-3/4" hose.

Hose Tray to have a flip down door with latches. Tray design shall allow hoses to pay out in any direction and quick hose storage when finished.

Hose tray shall have a 1-1/2" Pre-Connect elbow.

The area shall be designed to prevent the accumulation of water and allow for ventilation to aid in drying hose in the storage area. Black Turtle Tiles to be installed and bolted on the floor.

1.5" Discharge to Pre-connected Hose tray

One (1) 1.5" valve piped from the discharge manifold to the hose tray. The valve shall be an industrial quarter turn swing out valve with a handle and be connected to the hose tray by high pressure flexible plumbing.

Top Crosslay



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One (1) fully enclosed Crosslay tray made from polypropylene sheet shall be supplied and installed on top of the front transverse compartment.

Dimension of the Storage Tray to be full length of the front transverse x 9” wide x 8” high.

Crosslay shall have a top hinge polypropylene cover for easy loading and protective black nylon net with snaps on each side.

The area shall be designed to prevent the accumulation of water and allow for ventilation to aid in drying hose in the storage area. Black Turtle Tiles to be installed and bolted on the floor.

Compartment Lights switches

One (1) switch per compartment (R2-L2 only) shall be installed so the compartment light(s) shall come on only when compartment door is open. System to be wired to the flat bed junction box.

Door Ajar

One (1) door ajar warning light shall be provided and installed in the consol to indicate an open body compartment door (Shipped Loose). The light shall be properly marked with a sign “Warning Door Ajar” (Shipped Loose). System to be wired to the flat bed junction box.

Scene lights

Two (2) Rear Unity scene light provided and mounted on the top of the rear water tank. One (1) to be Floodlight, one (1) to be Spotlight. Switch to be located on the light. Lights to be wired to the flat bed junction box.

Other item included

Medium Kochek Wheel Chocks with storage bracket.

CAD Drawing for electrical installation, including the console electrical system diagram.

Console w/electrical components not included.



CET Fire Pumps Mfg Drop-In-Unit

Tank

The water tank shall be constructed of 1/2" thick polypropylene sheet stock with PolyMarCo-PP™ resin. Water tank shall be welded with Heavy Duty extruded joint. The material shall be of a certified, high quality, non-corrosive, stress relieved thermo plastic, black in colour with a textured finish, and UV stabilized for maximum protection. The skid type water tank shall be of a standard configuration and shall be so designed to have complete modular slide in capability. The unit shall incorporate transverse partitions manufactured for 3/8" PT2E polypropylene which shall interlock with a series of longitudinal partitions constructed of 3/8" PT2E polypropylene. All swash partitions shall be so designed to allow for maximum water and air flow between compartments and are fully welded to each other as well as to the inside of the tank.

The passenger side rear wall of the tank shall have a standard built in sight gauge 3" in width, and 70% transparent.

Fill tower and tank cover

The tank shall be equipped with a combination vent/overflow and manual fill tower. The fill tower shall have a 8" x 8" x 8" square drop-on type cover. The cover shall be fastened to the tower with a teather to prevent loss. The tower shall be located in the right rear corner of the tank. There shall be a vent / overflow installed inside and to the extreme rear of the tower approximately 2" down from the top. This vent / overflow shall be of a standard schedule 40 polypropylene pipe with minimum ID of 3". The vent / overflow shall be piped internally toward the front and exit out the front tank wall with a 1/2" extension past the front tank wall. The tank cover shall be constructed of 1/2" thick PT2E polypropylene, black in color, UV stabilized.

Tank will be baffles in accordance with NFPA bulletin 1901 requirements, latest version.

Tank Capacity

The tank shall have a capacity of 300 U.S. gallons of water. The tank shall be covered by the *ALL OUT* No Fault Life Time Warranty.

In addition, a 10 gallon Drop-in integrated foam cell will be included. A label that reads "Foam" shall be placed at any foam concentrate tank fill opening.

Sump



The floor of the tank shall be manufactured from 3/4" PT2E polypropylene. There shall be one (1) sump as standard per tank. The sump shall be integral to the tank floor and be a minimum of 3/8" deep recessed into the floor. The sump shall not be visible from or protrude through the bottom of the tank.

Tank Outlets

There shall be two standard tank outlets located in the same vertical plane on the driver side rear wall of the tank. One (1) 2-1/2" female NPT tank to pump suction fitting and one (1) 1-1/2" female NPT tank fill fitting with flow deflector

1" Tank Drain

There shall be a 1" tank drain to the rear side of the tank with a brass plug.

Tank Mounting Blocks

The cover shall incorporate two (2) booster reel mounting blocks that shall be to accommodate two (2) each sliding nut fasteners. These 4" large mounting blocks shall be welded to the covers running from the rear edge of the tank forward.

Skid Base

There shall be a full width skid base manufactured of 3/4" PT2E polypropylene welded to the tank. This base shall be 48" wide by 96" long and shall extend 34" past the tank in the rear to allow for pump mounting. The pump mounting area shall be supported by 1/2" PT2E polypropylene gussets 15" high by 32" long. The gussets shall be equipped with 2" holes to assist in lifting the unit. The mounts shall allow for the truck to be secured directly to a truck bed without the need for any skid frame work underneath.

Mounting

The Drop-In-Unit shall be mounted in a manner that allows access to the engine, pump, and auxiliary systems for routine maintenance. The Drop-In-Unit shall not be welded or otherwise permanently secured to other components.

CET Diesel Pump, PFP-21hpKBT-MR



The pump shall be a CET PFP-21hpKBT-MR single stage centrifugal pump, bolted directly to the engine, with a 2.5" NPT suction inlet, and a 1.5" NPT discharge outlet. The volute and pump head shall be a lightweight, high strength, seawater resistant, aluminum alloy. The impeller shall be a bronze enclosed type for maximum efficiency, fully machined and balance. The shaft seal shall be self-adjusting, self lubricating, mechanical type. The pump shall be equipped with a brass drain cock.

The pump shall be equipped with an regular exhaust primer capable of 15' lift.

The pump shall be capable of a maximum discharge volume of 240 g.p.m. at 50 psi, and a maximum discharge pressure of 175 psi while pumping 25 g.p.m. In the center of the performance curve, the pump shall be capable of pumping 160 g.p.m. at 100 psi and 100 g.p.m. at 150 psi.

Pump to be mounted at rear.

Engine

The pump shall be driven by a 3 cylinder, DIESEL engine powered, 21 horsepower. The engine shall be water cooled, 12 volt electric start.

The engine shall be fuelled from the engine Diesel tank (Fuel pump supplied and shipped loose).

The engine shall be connected to the main battery of the truck (Quick connector to be supplied and shipped loose).

Pump Control panel

A Deluxe Control Panel shall be supplied and installed on the pump. The Control Panel shall be manufactured from aluminum and completely covered with a black plastic plate. The Control Panel shall consist of a master switch, start button, engine stop, oil pressure, glow plug and engine temperature warning lights, 2.5" diameter pump discharge pressure and 2.5" dia. Pump intake liquid filled gauges, primer control, throttle lever, Foam system control, FRC water level indicator and illumination for controls with the installation of one new design tube light. All pump controls and gauges shall be properly marked with white letters engrave in the black plastic plate.

Centerline of any control shall be no more than 72 in. vertically above the ground or platform that is designed to serve as the operator's standing position.

The performances are base on a maximum altitude of 500ft and any higher elevation will lower the pump performance. The standard engine performance drop are 3% for every 1000 ft



Scotty Foam System

There shall be a Scotty model 4071 around the pump foam eductor / mixer installed integral to the pump. The eductor shall be plumbed from the foam cell with ½" flexible reinforced tubing to throughout the eductor to a suction fitting on the pump impeller housing. The eductor shall be calibrated to educt foam concentrate at variable percentage into a discharge manifold flowing 15, 30, 50 and 70 gal. per min. The eductor shall be capable of a discharge of a 1% foam solution at specified flows.

10 gallon Drop-in integrated foam cell will be included. A label that reads "Foam" shall be placed at any foam concentrate tank fill opening.

Plumbing and Valves

Intake and discharge piping shall not interfere with the routine maintenance of the pump, engine, or auxiliary systems and shall not unduly restrict the servicing of these components.

Suction Piping

All piping shall be schedule 40 steel piping, painted red. The suction piping shall consist of a 2.5" tank to pump line with a 2.5" flexible rubber hump hose to minimize flex and vibration between the pump and the tank. RIGID PIPING SHALL NOT BE ACCEPTABLE. Between the tank and the pump there shall be a 2.0" Fire Type, quarter turn swing out valve with a handle. This valve shall remain open to pump from the tank. This pipe shall have a tee into the suction side of the pump, and shall continue to the rear of the truck for overboard suction.

For ease of operation, a push/pull control rod shall be installed with a cast brass "Tee" handle for the inlet located between the tank and the pump.

The overboard suction connection shall have a 2.0" Fire Type, quarter turn swing out valve with a handle and 2.5" NST male adapter w/cap with retaining cable. To draft, the tank to pump valve shall be closed, a suction hose connected to the overboard suction connection and placed in a static water supply, and the primer activated.

Discharge Piping

All piping shall be schedule 40 steel piping or high pressure flexible hose. A 2.5" X 2.5" square steel manifold shall be piped directly to the discharge outlet of the pump. Attached to this discharge manifold, by means of welded steel pipe nipples, shall be all the discharge valves. All piping shall be painted red to match the pump.

Tank Fill



There shall be a 1" valve piped from the discharge manifold as a means for refilling the tank. The valve shall be an industrial, quarter turn swing out valve with a handle and 1" NPT threads, and shall be connected to the tank fill port by 1" high pressure flexible hose.

Discharge to Booster Reel

There shall be a 1" valve piped from the discharge manifold to the booster reel. The valve shall be The valve shall be an industrial, quarter turn swing out valve with a handle and 1" NPT threads, and shall be connected to the reel by 1" high pressure flexible hose.

Additional work line discharge

There shall be a 2" NPT Male capped discharge (no valve) on the work line side of the manifold for future use.

Garden Hose Discharge

There shall be a standard garden hose valve piped from the manifold of the pump.

1.5" Discharge To Rear

There shall be one (1) 1.5" valve piped from the discharge manifold to the rear of the truck for connection of forestry hose. The valve shall be an Fire Type, quarter turn swing out valve with a handle and 1.5" NST threads. The valve shall be furnished with a 1.5" NST cap and chain.

2.5" Discharge to Rear

There shall be one (1) 2.0" valve piped from the discharge manifold to the rear of the truck bed. The valve shall be an Fire Type, quarter turn swing out valve with a handle and 2.5" NST threads. The valve shall be furnished with a 2.5" cap and chain.

1" Tank Drain

There shall be a 1" drain to the rear of the truck bed with a brass plug.

The Drop-In-Unit electricity and diesel will be connected directly to the main battery and tank of the chassis.

Approximate weight of the Drop-In-Unit including hose reel(s) and full of water and other liquids is 3,500#.



Booster Reel

One (1) 12v Electric Rewind Booster Reel

One (1) 12v electric rewind booster reel capable of handling 200' of 1" diameter booster hose. The reel shall have a push button rewind control and a backup geared crank rewind handle. The reel shall be equipped with a 1" NPT 90 degree swivel inlet, and a 1" NST outlet riser. The reel shall be manufactured of steel and shall be primed and painted red. Reel to be installed on the rear right side of the truck bed.

150' of 1" Forestry booster hose shall be supplied and installed.

Booster Reel Rollers

One high mounted roller and spool assemblies shall be furnished and installed facing rear of the truck.

Testing

The pump shall be tested after the pump and all its associated piping and equipment have been installed on the fire apparatus. The tests shall be conducted at the manufacturer's approved facility.

The testing shall include at least the pumping tests, the priming device test, the vacuum test. The water tank-to-pump flow test, and the piping integrity test.

General Warranty

CET warrants to the original purchaser that CET will, at its election, either replace or repair any part of the new equipment sold to the purchaser hereunder which has been given no abnormal use; and which has received proper maintenance; and which is determined by CET to be defective in material or workmanship; and which has, within one (1) year after delivery to the purchaser be returned at the purchaser's expense, with transportation charges prepaid, to CET factory OR which has, within one (1) year after delivery to the purchaser, been pre-approved by CET for a third-party to perform the work. All problems shall be reported to CET in writing and damaged parts shall be returned to CET.

Exclusions from warranty

1. CET incurs no liability under this warranty or otherwise for parts, accessories or components not manufactured by it, but purchased for assembly into the equipment, but CET will assign to the Purchaser whatever warranty rights are extended by the supplier of such part, accessory or component
2. CET incurs no liability under this warranty or otherwise, for equipment which has been abused, altered or improperly maintained, or for equipment which has been returned for inspection or repair



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more than ten (10) days after defect complained of has been or should have been discovered by the Purchaser, or Equipment which is operated after the defect has been discovered.

3. CET incurs no liability for alteration or repairs unless the Purchaser first receives CET / written consent or approval. CET will not be responsible for work or repairs made or done by others.

4. CET incurs no liability for design alterations, parts, accessories or components which are not standard but are specified by the Purchaser for incorporation into the equipment.

INTERPRETATION

CET shall not be liable for transportation charges either in shipment to or by it and shall not be liable for loss of use, or consequential damage of any kind in connection with the sales, alteration, repair or replacement of any equipment or part thereof. Liability under this warranty is limited to replacement or repair and in any event shall not exceed the purchase price paid. This warranty is not transferable by the Purchaser. CET reserves the right to make changes in design or add any improvements to the Equipment at any time without incurring any obligation to install or modify same on other equipment previously supplied.

There are no other warranties, conditions or representations, expressed or implied, except the above.

Paint Warranty

The PPG paint performance guarantee will cover the areas of the vehicle finished with the specified product for a period of FIVE (5) years beginning the day the vehicle is delivered to the purchaser.

Warranty inclusions :

Peeling or delamination of the topcoat and/or other layers of paint

Cracking or checking

Loss of gloss caused by cracking, checking, or bazing.

Any paint failure caused by defective PPG Fleet Finishes which are covered by this guarantee.

CET Water Tank Warranty Lifetime

CET Fire Pumps, Mfg. warrants each CET water and/or foam tank to be from manufacturing defects in material and workmanship for the service life of the original vehicle. Every CET tank shall be thoroughly inspected and tested for leaks before leaving our facility and must be installed in accordance with the CET Fire Pumps, Mfg. installation guidelines.

CET will repair or, at its option, replace the tank with a new tank. CET will cover customary and reasonable costs to remove and install the tank. This warranty will not cover the tanks that have been improperly installed, misused, or abused. The serial number must not have been altered, defaced or



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removed. CET will not cover any unauthorized third party repairs or alterations. Any of these actions may void the warranty.

There are no warranties, expressed or implied, which extend beyond the description of the face, hereof. There is no express or implied warranty of merchantability or a warranty of fitness for a particular purpose. Additionally, this warranty is in lieu of all other obligations or liabilities on the part of CET Fire Pumps, Mfg.

This warranty contains the entire warranty. It is the sole warranty and price agreements or representation, whether oral or written, are either merged herein or expressly canceled. CET Fire Pumps, Mfg. neither authorizes any person supposing to act on its behalf to change, nor assume for it, any warranty or liability concerning its product.

In no event will CET Fire Pumps, Mfg. be liable for an amount in excess of the currently published retail price plus installation and removal cost of the tank, for any loss or damage, whether direct or indirect, incidental, consequential, or otherwise arising out of failure of its product.

This warranty gives you the specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow exclusion or limitation of incidental or consequential damage, so the above limitation or exclusion may not apply to you. Since some states do not allow limitations on the length of an implied warranty, the above limitation may not apply to you.

The warranty is transferable within the United States and Canada at the discretion of CET Fire Pumps, Mfg. by notifying CET Fire Pumps, Mfg. within thirty (30) days of the vehicle transfer date. At that time, CET will, at its discretion, provide a transfer of ownership form.

Manufacturer's discretion

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

12 VOLT ELECTRICAL:

12 VOLT ELECTRICAL SYSTEM:

The electrical system shall be engineered to provide many years of dependable, trouble free service.



The 12-volt apparatus wiring shall be completely independent of the chassis electrical system. The system shall incorporate a state-of-the-art electrical distribution center

The electrical items shall be active from the siren head

MASTER SWITCH:

A 12 Volt Cole-Hersee Rotary switch shall be installed. When in the OFF position, the master switch system shall isolate all electrical power from the apparatus. It shall not interrupt any primary battery/starter wiring originally furnished by the chassis manufacturer.

LIGHTBAR:

One (1) Weldon 54" Aero-Maxx II LED lightbar, Model 9188-1554-02, shall be mounted on the flat bed headache rack. The lightbar shall be switched from the in cab switch panel. The light bar shall be a 360 degree light bar.

WARNING LIGHTS (FRONT):

Two (2) Weldon Model V26W--R red Diamond Back LED lights shall be mounted on the front of the apparatus, one (1) on each side. The lights shall include chrome bezels. These lights shall be switched from the in cab switch panel. These lights fill the requirements of Zone A Lower.

WARNING LIGHTS (REAR):

Two (2) Weldon Model V37W-C00R red Diamond Back LED lights shall be mounted one (1) on each side at the rear of the apparatus. The lights shall include chrome bezels. These lights shall be switched from the in cab switch panel. These lights fill the requirements of Zone C Lower.

LED REAR DRIVING SIGNALS:

Supplied on the Flat bed

ELECTRONIC SIREN:

One (1) Code 3 Model 3672L4 siren shall be installed in the apparatus. The siren shall be mounted in the cab and shall include a noise-canceling microphone. The warning lights shall be active from the siren head.

SIREN SPEAKER:



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One (1) Federal Dynamax 100 watt siren speaker shall be installed in the apparatus bumper.

BACKUP ALARM:

One (1) Federal Model 210339, 12 volt electronic backup alarm shall be incorporated on the apparatus. The backup alarm shall be a minimum of 97db and switched with the backup light circuitry.

HAZARD LIGHT:

A red, Solid Glow LED light located in the driving compartment shall be illuminated automatically whenever the passenger or drivers equipment compartment door is in the open position . The light shall be marked "Do Not Move Apparatus When Light Is On".

FINISH:

The unit shall be cleaned and prepped for the customers approval.

CAB LETTERING:

Gold vinyl leaf lettering shall be applied to the chassis cab door, one (1) each side. Each letter shall be 2½" to 3½" high, hand applied, blocked and shaded in black.

LAMINATION WARRANTY:

The apparatus shall be covered by a three (3) year warranty against defects in material and workmanship with the graphics process

REFLECTIVE STRIPING:

The finished apparatus shall be striped white with 4" reflective Scotchlite striping.

REFLECTIVE STRIPING IN THE CAB:

Two-inch diagonal-striped retro-reflective material shall be placed on the inside of each opening cab door. The material will be at least 96 square inches, meeting current NFPA standards.

One (1) 1" Akron 4802 Assault nozzle(s) with pistol grip.