



Quote Summary with Notes

Customer: NEFEA

10 Stillman Rd

North Haven, CT 06473

Dealership: New England Fire Equipment and Apparatus

10 Stillman Road

North Haven, CT 06473

Quote No: 0023117

Quote Name: NEFEA MMT Demo

S.O.#: S5488

Unit Type:

Option ID	Description	Ext Price
General Info	<u>General Info Section</u>	
900995	Smeal 100' Mid Mount Platform <i>Shop Note:</i> <i>CO A, B, C, E, F incorporated , Chassis CO D</i>	
100973	Smeal Branded Badging and Logo's	
911085	Destination, United States	
900998	Intent of Specifications, Aerial, Pump	
901160	Engine Availability	
911059	Bidding Prerequisites, United States	
911060	Standards Version, NFPA	
911064	Inspection Certificate, NFPA Compliance	
911070	Documentation, NFPA	
980016	Owner's Manuals, Electronic, (1) USB Drive	
901037	Aerial Operations/Parts/Maintenance Manuals, (1) Printed Copy, (1) USB Drive	
121747	Aerial Demonstration, Aerial Platform, (4) Consecutive Days	
911081	Misc. Equipment Allowance, 2,500 Lb.	
901080	Tilt Table Test, Not Required, Chassis ESC	
980012	Pump Certification, Independent Third Party	
911066	Pump Certification Measure, U.S. GPM	
911304	Apparatus Production Photos	
911073	Pre-Construction Meeting, OEM Factory	
911074	Final Inspection, OEM Factory, Required	
980011	Final Inspection Option, Water Tank Filled	
900478	Overall Height, 130" (10'-10")	
900328	Overall Length, 573 (47'-9")	
900592	Wheelbase, 244 (20'-4")	
900653	Angle of Approach, 8 Degrees	
900674	Angle of Departure, 8 Degrees	
Chassis	<u>Chassis Section</u>	
910013	Custom Chassis, Spartan, Gladiator	
910020	Axles, Tandem	

Option ID	Description	Ext Price
001360	OEM Chassis Preparations, Spartan Metro Star/Gladiator	
001200	Mud Flaps, Front Chassis Provided, Rear OEM Provided	
910021	Cab Electrical, Multiplex	
001379	Heat Exchanger, Chassis Supplied and Installed	
100964	Relocate Cab Tilt Pendant, Standard Location <i>Shop Note:</i> <i>Install on the front wall of PR1</i>	
910156	Front Bumper, Chassis Supplied and Installed	
901220	No Front Storage Well Flooring	
111595	Map Console, 3-Slot (2-1/2" Binders), Gray Bedliner Coating	
911113	Map Console Location, Engine Tunnel Mounted, Drop-In <i>Shop Note:</i> <i>The map box is to be shipped loose with the truck</i>	
911284	Battery Charger, Chassis Supplied and Installed	
000366	Door Open Warning Circuit, Wired to Light in Cab	
110021	Mounting Plate, On Engine Tunnel, Aluminum, MultiSpec, Gray	
008567	Shelf, Back of Engine Tunnel, Tread Plate	
121761	Mounting Plates, PAC TRAC, Back Wall of Chassis Cab, Outboard Each Side	
110045	Receptacle, 120V, 5-15R Household, Duplex, Wired to Shoreline	
910043	Outlet Location, Officer's Seat, Behind	
Water/Foam Tanks	<u>Water/Foam Tanks Section</u>	
110100	Water Tank, UPF, 300 U.S. Gallons	
008186	Water Tank Mounting, UPF, Mid Mounts	
002230	Water Tank Drain, 1-1/2" Valve, Aerials	
910164	Water Tank Fill Tower, UPF, Black, Mid Mounts	
010075	Water Tank Level Gauge, Innovative Controls SL Plus, Pump Operator's Panel	
000348	Water Tank Overflow, UPF, 4", Pumpers w/ EHL, Aerials	
Hose Bed	<u>Hose Bed Section</u>	
UPO0072620	Hose Bed, Center Rear Body, Abraded Finish, (85' MMP/100' MMP), Narrow Specification: HOSE BED	

The hose bed shall be located at the center rear of the truck, behind the water tank. The inside of the hose bed shall be constructed of smooth aluminum. Hose shall be accessible from a narrowing of the hosebed at the rear, and the opening shall be free of obstructions that might interfere with the deployment and loading of hose. A 1" stainless steel body trim piece shall be at the rear-bottom of the hose bed, to protect the chevron striping when deploying hose.

The interior walls of the hose bed shall have an abraded aluminum finish.

The floor of the hose bed shall be constructed of Dura-Dek fiber reinforced plastic material to prevent the accumulation of water and to allow ventilation to aid in drying hose. The flooring shall be fabricated of "T" beam pultrusions

Option ID	Description	Ext Price
	<p>in parallel connected with cross slats that are first mechanically bonded and then epoxied, forming a large sheet. The top portion of each "T" cross section shall measure 1-1/4" wide and 3/16" thick with beaded ends. The vertical portion shall be 3/8" thick, beading out at the bottom to a thickness of 1/2" and tall enough to result in an overall height of 1". The "T" sections shall be spaced 3/4" apart to allow for drainage and ventilation.</p> <p>Each "T" beam shall be constructed utilizing a core of 250,000 continuous glass fiber strands that are high in resistance to tension, compression and bending. An outer sheath consisting of a continuous strand mat to prevent linear splitting and slipping shall surround the core. The sheath shall also serve to draw the protective resin to the bar surface. Both reinforcements shall be pulled through an isophthalic polyester resin, treated with antimony trioxide for fire resistance, to form a solid length.</p> <p>The flooring shall then be protected with a polyurethane coating to screen out ultraviolet rays. The bright white coating shall be baked on.</p> <p>The hose bed shall contain the following hose load:</p>	
910399 UPO0068632	<p>Hose Load, Double-Jacket Hose, 500' of 5" Hose Bed Cover, None, SOE To be Signed Specification: There will not be a hosebed cover installed on the hosebed. A statement of exceptions will need to be signed.</p>	
	<p><i>Shop Note:</i> <i>SOE to be signed</i></p>	
UPO0068672	<p>Hose Bed End Cover, Webbing, Footman Loops Bottom, Stayrite Attachments Upper Specification: One (1) webbing restraint shall be located on the rear of the hosebed. The webbing shall be a one-piece design. The bottom shall be secured with footman loops. The upper will be secured with Stayrite bungee attachments at each upper corner.</p>	
102540	<p>Hose Bed Loading Lights, (2), LED, On Scene Night Axe W/Housing <i>Shop Note:</i> <i>The lights will be placed on the front wall of the hosebed.</i></p>	
Body / Pump Module 002651	<p>Body / Pump Module Body, 100" Wide, Mid Mount Aerial, Tandem-Axle, Aluminum, 1/8" (100' MMP)</p>	
120793	<p>Side Compartment Doors, Roll-Up Doors, ROM, Satin Finish <i>Shop Note:</i> <i>Compartment L4 is a vertically hinged lap type door.</i></p>	
UPO0068722	<p>L4 Compartment Door, Lap Doors, Painted Specification: SIDE COMPARTMENT DOOR (L4)</p>	
	<p>A Hinged lap-type compartment door shall be installed on driver's side rear body compartment. The lap door shall be a double panel construction with the outer panel fabricated of .190" 3003-H14 aluminum and the inner panel of .125" 3003-H14 aluminum. Rubber molding shall be installed in the overlap area of the door to insure a weatherproof seal and prevent water from collecting in the door sills. Weep holes shall be installed at the bottom</p>	

Option ID	Description	Ext Price
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of the doors to drain moisture from between the door panels. The compartment door shall have a polished stainless steel continuous hinge with a rubber seal installed between the hinge and the aluminum door to separate the dissimilar metals. The hinge pin shall be stainless steel with a minimum diameter of 1/4".

The vertically hinged door shall be supplied with one (1) Cleveland-style spring loaded door holder on the compartment door to hold the door in either the fully open or partially closed position. Each gas spring door holder shall close the door automatically when it is positioned past center or return the door to the fully open position if the center point is not reached and the door is released.

UPO0056435 Inner Door Pan, Side Doors, Painted Main Body Color

Specification:

The inner lap type door panels shall be painted the primary body color. The panels shall have a grade "B" paint finish, therefore it will not be buffed and may be subject to imperfections.

- 120874 Compartment Door Handles, All Non-Locking
- 120475 Drip Trays, Roll-up Door, ROM, All Compartments
- 101627 Rear Compartment Door, (1) Double, Vertically Hinged, Painted, Single Panel, Compression Latches
- 901195 Inner Door Face, (1) Rear Door, Painted Main Body Color
- 120981 Compartment Lighting, ROM, LED (18)

Shop Note:

Two lights to be installed in L1, L2, L3, R1, R2, R3, R4, PR1. One light will be installed in L4. One light will be installed in T1 (horizontally)

- 000934 Compartment Finish, Bedliner Coating, Gray
- 120469 Flooring, Black Turtle Tiles, All Interior Body Compartment Floors / Floor Mounted Trays and Shelves / Adjustable Trays
- 000474 Air Release and Drain Holes, All Compartments
- 000441 Sill Protectors, Anodized Aluminum, Lap Door
- 010216 Fuel Fill, OEM Painted Door, Driver's Side
- 901150 Wheel Well Storage Design, Tandem Axle, Standard
- 121550 **Driver's (Left) Side Body, Mid Mounts, Tandem Axle, L1 Upper, L2 Upper, L3 Full, L4 Full**

L1 L1 Components

- Height Height - 17"
- Width Width - 55"
- Upper Depth Upper Depth - 14"
- Lower Depth Lower Depth - 14"
- Divide Height Intermediate Divide Height - "

- 004855 Mounting Surface, Back Wall of Compartment, PAC Trac

Shop Note:

The load center is located on the back wall. The PAC Track will run up next to the load center. The load center is too large to be mounted on the front wall.

Cmpt. Layout

L2 L2 Components

- Height Height - 17"

Option ID	Description	Ext Price
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Width	Width - 55"	
Upper Depth	Upper Depth - 14"	
Lower Depth	Lower Depth - 14"	
Divide Height	Intermediate Divide Height - "	
000699	Tool Board (1), Split Swing-Out Aluminum, Standard Height, Abraded Pegboard	
004855	Mounting Surface, Back Wall of Compartment, PAC Trac	

Cmpt. Layout

L3 **L3 Components**

Height	Height - 49"	
Width	Width - 51"	
Upper Depth	Upper Depth - 26"	
Lower Depth	Lower Depth - 26"	
Divide Height	Intermediate Divide Height - 37"	
002742	Shelf (1), Adjustable, Aluminum, Full Depth (4 Struts), Abraded	
120785	Compartment Struts, Vertical, Welded Aluminum	

Cmpt. Layout

L4 **L4 Components**

Height	Height - 35"	
Width	Width - 10"	
Upper Depth	Upper Depth - 9"	
Lower Depth	Lower Depth - 9"	
Divide Height	Intermediate Divide Height - "	

Cmpt. Layout

UPO0068634 **WL1, Wheel Chock Compartment, OEM Painted SS Door, (Charlotte Style)**

Specification:
DRIVER'S SIDE REAR WHEEL WELL POSITION - WL1

A wheel chock compartment shall be installed in the forward portion of the rear wheel well area, on the driver's side. The compartment shall be capable of storing two wheel chocks.

The compartment door, flange, and hinges shall be constructed of stainless steel material. The door shall have a rubber gasket to create a 100% seal to protect the interior of the compartment. The storage compartment shall be a molded component that is assembled to the door and flange. The door shall be painted primary body color.

UPO0068666 **WL2, Extinguisher/Water Can Compartment, OEM Painted SS Door, Back to Back Single (Up to 9" Diameter)**

Specification:
DRIVER'S SIDE REAR WHEEL WELL POSITION - WL2

Back to back single extinguisher/water can compartments shall be installed in the rear wheel well area, between the tandem axles. The compartments shall be large enough to hold an extinguisher/water can up to 9" in diameter, with sufficient space for the discharge tube. The compartments doors, flanges, and hinges shall be constructed of stainless steel material. The door shall have a rubber gasket to create a 100% seal to protect the interior of the

Option ID	Description	Ext Price
	compartment. The storage compartment shall be a sheet aluminum construction that is assembled to the door and flange. The door shall be painted primary body color.	
009420	WL3, Air Bottle Compartment, OEM Painted SS Door, Triple (Triangle) 8"	
121591	Officer's (Right) Side Body, Mid Mounts, Tandem Axle, PR1 Full, R1 Upper, R2 Upper, R3 Full, R4 Full	
PR1	PR1 Components	
Height	Height - 32"	
Width	Width - 23"	
Upper Depth	Upper Depth - 18"	
Lower Depth	Lower Depth - 18"	
Divide Height	Intermediate Divide Height - "	
002742	Shelf (1), Adjustable, Aluminum, Full Depth (4 Struts), Abraded	
120785	Compartment Struts, Vertical, Welded Aluminum	
Cmpt. Layout		
R1	R1 Components	
Height	Height - 17"	
Width	Width - 55"	
Upper Depth	Upper Depth - 14"	
Lower Depth	Lower Depth - 14"	
Divide Height	Intermediate Divide Height - "	
004855	Mounting Surface, Back Wall of Compartment, PAC Trac	
120785	Compartment Struts, Vertical, Welded Aluminum	
Cmpt. Layout		
R2	R2 Components	
Height	Height - 17"	
Width	Width - 55"	
Upper Depth	Upper Depth - 14"	
Lower Depth	Lower Depth - 14"	
Divide Height	Intermediate Divide Height - 0"	
004855	Mounting Surface, Back Wall of Compartment, PAC Trac	
Cmpt. Layout		
R3	R3 Components	
Height	Height - 49"	
Width	Width - 51"	
Upper Depth	Upper Depth - 26"	
Lower Depth	Lower Depth - 26"	
Divide Height	Intermediate Divide Height - 37"	
002742	Shelf (1), Adjustable, Aluminum, Full Depth (4 Struts), Abraded	
120785	Compartment Struts, Vertical, Welded Aluminum	
Cmpt. Layout		
R4	R4 Components	
Height	Height - 32"	
Width	Width - 31"	
Upper Depth	Upper Depth - 10"	

Option ID	Description	Ext Price
Lower Depth Divide Height 002742	Lower Depth - 22" Intermediate Divide Height - 31" Shelf (1), Adjustable, Aluminum, Full Depth (4 Struts), Abraded	
120785 Cmpt. Layout UPO0068723	<p data-bbox="386 300 1273 363"><i>Shop Note:</i> <i>This shelf will only adjust down to the top of the outrigger control box</i></p> <p data-bbox="386 373 1011 405">Compartment Struts, Vertical, Welded Aluminum</p> <p data-bbox="386 453 1276 516">WR1, Wheel Chock Compartment, OEM Painted SS Door, (Charlotte Style)</p> <p data-bbox="386 527 1146 590">Specification: OFFICER'S SIDE REAR WHEEL WELL POSITION - WR1</p> <p data-bbox="386 625 1385 726">A wheel chock compartment shall be installed in the forward portion of the rear wheel well area, on the officer's side. The compartment shall be capable of storing two wheel chock.</p>	
009444	<p data-bbox="386 762 1373 926">The compartment door, flange, and hinges shall be constructed of stainless steel material. The door shall have a rubber gasket to create a 100% seal to protect the interior of the compartment. The storage compartment shall be a molded component that is assembled to the door and flange. The door shall be painted primary body color.</p> <p data-bbox="386 930 1304 993">WR2, Air Bottle Compartments, OEM Painted SS Doors, Two (2) Back-to-Back Single 8"</p>	
009459	WR3, Air Bottle Compartment, OEM Painted SS Door, Triple (Triangle) 8"	
901044 008775	Rear Side Body, Mid Mounts, Torque Box Compartment Sub Frame Body Mounts, GS-36, Hot-Dip Galvanized Steel, Aerial (100' MMP)	
005118	Rub Rails, "C" Channel Design (No Rubber Inserts)	
000516 UPO0067957	Tow Option, Rear, Tow Eye, Two (2), Chrome Modifications Specification: Modifications	
002187	Wheel Wells, Rear, Tandem Axle	
003560	Fenderettes, (4), Tandem Axle, Stainless Steel	
120489	Exhaust Heat Deflector Shield, 4"	
002427	License Plate Bracket	
006375	Stainless Steel Screws, Aerial	
001210	Bag of Bolts	
900963	Walkways/Overlays/Stepping Surfaces, Tread Plate, NFPA	
100920	Turntable Access Ladder, Driver's Side, Grote LED Light, Hansen Handrails, Backlit White with Red Reflective, Knurled Aluminum, Mid Mounts	
100928	Turntable Access Ladder, Officer's Side, Grote LED Light, Hansen Handrails, Backlit White with Red Reflective, Knurled Aluminum, Mid Mounts	
100932	Platform Access Steps, Mid Mounts, Driver's Side, Grote LED Light, Hansen Handrails, Backlit White with Red Reflective, Knurled Aluminum	

Option ID	Description	Ext Price
000505	Overlay, Tread Plate, Vertical Areas of Both Front Compartments	
	<i>Shop Note: Also include the rear face of the oil tank compartment and PR1</i>	
901153	Handrail Material, Knurled Aluminum, Hansen LED (White) Backlit with Red Reflective	
001309	Ladder Storage, In Torque Box, Mid Mounts	
UPO0067958	Ground Ladder Package, Duo-Safety, (1) 10' Attic (585-A), (1) 14' Fresno (701), (1) 16' Roof (875-A), (1) 20' Roof (875-A), (1) 28' Two-Section (1200-A), (1) 35' Two-Section (1200-A)	
	Specification: One (1) Duo-Safety, model 585-A, 10' aluminum folding ladder shall be provided.	
	One (1) Duo-Safety, model 701, 14' "Fresno" attic extension ladder with a 13" rail width shall be provided.	
	One (1) Duo-Safety, model 875-A, 16' aluminum roof ladder with folding roof hooks shall be provided.	
	One (1) Duo-Safety, model 875-A, 20' aluminum roof ladder with folding roof hooks shall be provided.	
	One (1) Duo-Safety, model 1200-A, 28' aluminum two-section extension ladder shall be provided.	
	One (1) Duo-Safety, model 1200-A, 35' aluminum two-section extension ladder shall be provided.	
121682	Brackets with Straps, Little Giant Ladder, Chassis Cab Roof	
121815	Ladder (1), Wing Enterprises, 17' Aluminum Little Giant Defender (15187-882)	
009223	Pike Pole Storage, In Upper Portion of Torque Box, (6) Tubes	
UPO0068636	Pike Pole Package, Fire Hooks Unlimited, Steel, New York Roof Hooks, (2) 6' Poles (RH-6), (2) 8' Poles (RH-8), Fiberglass, National Hook(2) 12' Poles (NHF-12)	
	Specification: Two (2) Fire Hooks Unlimited, model RH-6, 6' steel shaft pike poles with a New York Roof Hook and chisel end shall be provided.	
	Two (2) Fire Hooks Unlimited, model RH-8, 8' steel shaft pike poles with a New York Roof Hook and chisel end shall be provided.	
	Two (2) Fire Hooks Unlimited, model NHF-12, 12' fiberglass (ash core) pike poles with a National Hook and butt-style end shall be provided.	
009226	Pike Pole Storage, In Upper Portion of Torque Box, (2) Trays	
121263	Pike Poles (2), Fire Hooks Unlimited, 4' Fiberglass, National Hook, Ash Core, D-Handle, NHF-4 w/D	
900958	Wheel Chock Compartment, WL1, One (1) Pair	
002412	Wheel Chocks, (1) Pair, Zico SAC-44 (Chocks Only)	
901217	Wheel Chock Compartment, WR1, One (1) Pair	
002412	Wheel Chocks, (1) Pair, Zico SAC-44 (Chocks Only)	

Option ID	Description	Ext Price
002652	Pump Module, Mid Mount, Independent, 1/8" Aluminum (100' MMP)	
004731	Pump Compartment Internal Lighting, LED, On-Scene Night Axe	
009890	Running Board, Driver's Side, Integral, Tread Plate	
010132	Running Board, Officer's Side, Integral, Tread Plate	
009861	Pull-Out Platform (1), Driver's Side Pump Module, Innovative Industries	
100452	Access Panel, Split, Pump, Top Pump Module, Removable, Tread Plate, Compression Latches, Mid Mounts	
121720	Pump Panels, Mid Mount, Controls on Driver's Side, Black Bedliner Coating Finish, Polish SST Trim Rings, IC (Spartan) Bezels/Labels	
003659	Pump Panel Lighting, Side Panels, LED, On-Scene Night Axe	
910612	Pump Panel Lighting Activation, Automatic with Park Brake Engaged	
Pump / Foam System	<u>Pump / Foam System</u>	
101738	Pump, Waterous, Single-Stage, 2000 GPM, CSU, Flame Plated Impeller Hubs, Front Mount, Mid Mount	
000090	Mechanical Seals, Waterous	
002792	Anodes, Waterous, Magnesium, 2 Discharge, 2 Intake	
910624	Pump Rating, 2000 GPM	
910640	Pump Mounting, Independent Pump Module	
101764	Pump Shift, Chassis Sup/Instl, Air, Lights Incorporated with Pres. Gov.	
101812	Governor, Pump Boss Max, FRC	
UPO0068637	Intake Relief Valve, Pump, None Required Specification: The 6" intake valves have intake relief valves on them. If one of the valves is removed the main pump intake relief valve will need to be installed.	
006588	Primer, Trident, AirPrime (3-Barrel), Air-Operated Valve (31.001.7)	
000112	Master Drain Valve, Trident	
000087	Overheat Protection Manager (OPM), Waterous, With Lights	
910645	Pump Color Primed Black - Intakes Unpainted	
901166	Pump Manuals Waterous, (2)	
111069	Pump and Engine Cooling System, Inn. Cntrls, 3/8" I.D., Hose, Controls on Pump Panel	
006643	Manifold, Waterous, Standard, Side Mounts, Non-Foam	
910506	Akron 8800/8600 - Electric Discharges with Valve-Pressure Controllers - Manual Intakes	
911030	Gauge Brand, Inn. Cntrls, 2-1/2" TC Series, Liquid Filled Gauges - PSI 0-400	
111058	Master Pressure Gauge Assembly with Test Ports, Inn. Cntrls, 4" TC Series, Liquid Filled, Nylon Case Gauges, PSI -30-0-400	
911038	Include with Master Pressure Gauge Assembly	
910527	Hardware Brand, South Park, NH Intake Swivels, NH Discharges, TFT Storz	
100377	Drains, Innovative Controls, Manual Lift Handle	
911305	Plumbing Labels, OEM Standard	
Tank/Pump Plumbing Labels	Tank/Pump Plumbing Labels - SFA is to use standard colors and verbiage on the pump panel labels.	
UPO0068667	Pump to Tank Fill, 2", Akron 8600 2" Electric Valve, 9327 Controller	

Option ID	Description	Ext Price
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Specification:

An Akron Brass, model 8620, 2" Swing-Out valve shall be provided. The valve shall have an all brass body with flow optimizing stainless steel ball and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a specially designed flow optimizing stainless steel ball. The valve shall not require lubrication of seats or any other internal waterway parts, and must be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall be manufactured and assembled in the United States. The valve shall carry a ten (10) year warranty by the valve manufacturer.

The valve shall be actuated by an Akron Brass electric actuator installed on the valve. The electric actuator shall have a 16:1 gear ratio, which actuates from fully open to fully closed in five (5) seconds, a clutchless motor, and utilizes an electric controller with current limiting design.

The electric actuator shall be controlled by an Akron Brass, model 9327, Mini Navigator Pro electric valve controller. The electric controls shall be of true position feedback design, requiring no clutches in the motor or current limiting. The unit shall be completely sealed with momentary open and close. The unit shall carry a five (5) year warranty.

UPO0068668

Tank to Pump, 3", Akron 8600 3" Electric Valve, 9327 Controller

Specification:

3" TANK-TO-PUMP

A 3" tank-to-pump shall be plumbed with a flexible hose from the tank to the suction side of the pump. An Akron Brass, model 8630, 3" Swing-Out valve shall be provided. The valve shall have an all brass body with flow optimizing stainless steel ball and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a specially designed flow optimizing stainless steel ball. The valve shall not require lubrication of seats or any other internal waterway parts and must be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall be manufactured and assembled in the United States. The valve shall carry a ten (10) year warranty by the valve manufacturer.

The valve shall be actuated by an Akron Brass electric actuator installed on the valve. The electric actuator shall have a 16:1 gear ratio, which actuates from fully open to fully closed in five (5) seconds, a clutchless motor, and utilizes an electric controller with current limiting design.

The electric actuator shall be controlled by an Akron Brass, model 9327, Mini Navigator Pro electric valve controller. The electric controls shall be of true position feedback design, requiring no clutches in the motor or current limiting. The unit shall be completely sealed with momentary open and close. The unit shall carry a five (5) year warranty.

A check valve shall be between the pump suction and the booster tank valve. The check valve shall eliminate back flow into the water tank when the pump is connected to a pressurized source.

Intakes

Intakes

100381

Main Intake, Driver Side, 6", Short Tube, Full-Body Pump, MNST

Option ID	Description	Ext Price
111087	Butterfly Valve, Side Main Intake, 6" Electric, Waterous Monarch, Manual Override Access	
111073	Bleeder Valve, Inn. Cntrls	
111076	Intake Relief Valve, Main Intake, Elkhart, Factory Preset	
100477	Elbow (30 Deg.) 6" FNH (Long Handle) x 5" Storz (AH3HST-NX) - Storz Cap (A01ST), TFT	
002588	Auxiliary Intake, Driver-Side, 2-1/2", Fully Recessed	
007059	Valve, 2-1/2", Akron, Manual, 8825, Stainless Ball, TS Handle	
001246	Plug, NH, 2-1/2", South Park, HPC3008AC	
100385	Main Intake, Officer Side, 6", Short Tube, Full-Body Pump, MNST	
111087	Butterfly Valve, Side Main Intake, 6" Electric, Waterous Monarch, Manual Override Access	
111073	Bleeder Valve, Inn. Cntrls	
111076	Intake Relief Valve, Main Intake, Elkhart, Factory Preset	
100477	Elbow (30 Deg.) 6" FNH (Long Handle) x 5" Storz (AH3HST-NX) - Storz Cap (A01ST), TFT	
Intake Labels	Intake Labels - SFA is to use standard colors and verbiage on the pump panel labels.	
Discharges	<u>Discharges</u>	
002545	Discharge, Driver-Side, 2-1/2", NST (250 GPM NFPA Rated)	
101339	Valve, 2-1/2", Akron, Electric, 8625, Stainless Ball, 9335 Navigator Pro Controller (Valve and Pressure)	
100527	Elbow (30 Deg.) 2-1/2" FNH x 2-1/2" MNH (SE393010AC) - NH Cap (HCC2808AC), Chrome, South Park	
002545	Discharge, Driver-Side, 2-1/2", NST (250 GPM NFPA Rated)	
101339	Valve, 2-1/2", Akron, Electric, 8625, Stainless Ball, 9335 Navigator Pro Controller (Valve and Pressure)	
100527	Elbow (30 Deg.) 2-1/2" FNH x 2-1/2" MNH (SE393010AC) - NH Cap (HCC2808AC), Chrome, South Park	
002538	Discharge, Officer-Side, 2-1/2", NST (250 GPM NFPA Rated)	
101339	Valve, 2-1/2", Akron, Electric, 8625, Stainless Ball, 9335 Navigator Pro Controller (Valve and Pressure)	
100527	Elbow (30 Deg.) 2-1/2" FNH x 2-1/2" MNH (SE393010AC) - NH Cap (HCC2808AC), Chrome, South Park	
002553	Discharge, Officer-Side, 4", NST (625 GPM NFPA Rated)	
101346	Valve, 4", Akron, Electric, 8840, Bronze Flat Ball, 9335 Navigator Pro Controller (Valve, Pressure, Flow)	
100612	Elbow (30 Deg.) 4" FNH x 5" Storz (AH3ST-NP), Storz Cap (A01ST), TFT	
102634	Crosslays, Above Front of Body, (2) 1-1/2" and (1) 2-1/2" (Mid Mounts)	
007013	Pre-connect Hose Bed Housing Coating, Abraded Finish	
007018	Flooring, Dura-Dek	
000205	Crosslay Rollers	
009841	Crosslay Dividers (2), Abraded Aluminum	
UPO0068673	Crosslay Cover, Hinged Tread Plate, Side Mount Specification:	

Option ID	Description	Ext Price
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CROSSLAY COVER

An aluminum non-slip tread plate cover shall be installed on the crosslay hose bed. The cover shall not interfere with hose loading when in the open position. When in the open position the cover shall remain open due to automatically engaging mechanisms that require no type of latch operation to engage or release. The cover shall be provided with one full length stainless steel piano style hinge that shall attach the cover to the body. The cover shall be light yet rigid. Opening of the cover may be performed by one person on one side of the apparatus. The cover shall be rigid enough to support weight without deformation.

Shop Note:

The ladder will need to be raised to open the cover.

UPO0068640

Crosslay End Covers, Vinyl, C-Rail Top and Bungee Bottom, Red

Specification:

END COVERS

A heavy duty end flap/cover shall be located on each end of the pre-connected crosslays. The top of the end covers shall be connected to the tread plate top cover through a C-Rail channel. The bottom of the cover shall be attached to the pump module utilizing hooks and bungee cord. The cover color shall be red.

102543

Crosslay Hose Bed Lights, (2) LED, On Scene Night Axe

910701

Pre-connect, Crosslay/Speedlay, 1-1/2", NST

910655

Crosslay Load, 200' of 1-3/4" Hose, Double Stack

101336

Valve, 2", Akron, Electric, 8620, Stainless Ball, 9335 Navigator Pro Controller (Valve and Pressure)

910526

Preconnect Discharge

910701

Pre-connect, Crosslay/Speedlay, 1-1/2", NST

910655

Crosslay Load, 200' of 1-3/4" Hose, Double Stack

101336

Valve, 2", Akron, Electric, 8620, Stainless Ball, 9335 Navigator Pro Controller (Valve and Pressure)

910526

Preconnect Discharge

910702

Pre-connect, Swivel, Crosslay/Speedlay, 2-1/2", NST

910661

Crosslay Load, 200' of 2-1/2" Hose, Double Stack

101339

Valve, 2-1/2", Akron, Electric, 8625, Stainless Ball, 9335 Navigator Pro Controller (Valve and Pressure)

910526

Preconnect Discharge

008233

Discharge, Aerial Waterway, 4", 5" Plumbing (100' MMP)

101350

Valve, 4", Akron, Electric, 8940, Composite Ball, 9335 Navigator Pro Controller (Valve, Pressure, Flow)

Discharge Labels

Discharge Labels - SFA is to use standard colors and verbiage on the pump panel labels.

Low Voltage

Low Voltage

002956

Electrical System, Aerial, Weldon V-MUX Multiplex, QL-12 Harnesses, Sealed Switches

911058

Electrical System Test, 12 Volt

002849

Tail Lights, LED, Whelen, 600 Series, Stop-Tail (Combination) (604BTT)/Turn (604T)/Backup (604BU)/Warning, 4-Light Vertical Casting

Option ID	Description	Ext Price
002192	Switch, Rear Work Light, At Rear/Reverse	
008730	Turn Signals, (2) in Rub Rail, LED, Truck-Lite, Model 21	
100958	Ground Lights, LED, T44, Tecniq, Activation by Park Brake	
007397	Clearance Lights, With Rubber Extension Arms, LED, Grote (65282) and Truck-Lite (35741R ID), Red	
101464	Camera System, Back-Up, FRC InView 360, Chassis Supplied, OEM Installed Three Cameras	
000621	Alarm, Door Open Warning Circuit	
911317	Upper Zone A, Chassis Supplied and Installed	
110406	***OBSOLETE***Upper Zone C, Rotating Beacons (2), Whelen, RB6	
Upper Zone C Light/ Lens Color	Light/Lens Color - The driver's and officer's side lights shall both have red LED and red lenses unless otherwise specified.	
110473	Lower Zone Warning Lights (4 OEM Provided), A (0), B (1), C (2), D (1), Whelen, LED, 600 Series	
Lower Zone Light/ Lens Color	Light/Lens Color - The lower zone warning lights shall all have red LED's and red lenses unless otherwise specified.	
000890	Air Horn Activation, Push Button on Pump Panel, Driver's Side	
010221	Power and Ground Lead, 12V Drop, Battery Direct, 30 Amp, 6-Position Distribution Panel	
900014	Power Lead Location, In L1 Cmpt <i>Shop Note: Install on the front side wall of the compartment, up high</i>	
010221	Power and Ground Lead, 12V Drop, Battery Direct, 30 Amp, 6-Position Distribution Panel	
900019	Power Lead Location, In R1 Cmpt <i>Shop Note: Install on the front side wall of the compartment, up high</i>	
UPO0067959	Scene Lights, Pair, 12V, Firetech HiViz, Trunion Mount, LED Single Stacked Mini Brow FT-B-46-W, White Bezel Specification: LED BROW LIGHT Two (2 HiViz LEDs "FireTech" Scene light model FT-B-46-W shall be provided. The light instrument shall be low in profile with a trunion mounting bracket. The housing shall be made of a extruded 6061 aluminum; 46" wide and less than 3" tall. Each light shall come with 36 LEDs and produce 19,008 RAW Lumens. Each light requires 15.0 amps, which at 12V will require 150 Watts. Mounting shall be possible in any direction while still meeting NFPA 1901 compliance requirements. The housing color shall be white.	
910852	Lighting Location, Side Face of Body, Center, Both Sides <i>Shop Note: Recessed</i>	
110852	Lighting Activation, Pair, On V-Mux Screen and Pump Panel, 'LEFT SCENE' and 'RIGHT SCENE'	
Line Voltage	Line Voltage	
008785	Generator, Hydraulic, Harrison, 10kW, Meter Display	

Option ID	Description	Ext Price
	<i>Shop Note:</i> <i>Display to be mounted on the pump panel</i>	
007421	Generator Start, Hydraulic Gen., On Pump Panel	
901012	Generator PTO, Standard Hot Shift, PTO	
002786	Generator Location, Ahead of Turntable, Harrison	
007410	Generator Load Center, 16-Circuit, Non-GFI Breaker Box	
910726	Generator Load Center Location, L1, Back Wall	
007616	Receptacle, 120V, 5-20R Straight Blade, Duplex, Wired to Shoreline	
910912	Receptacle Location, In L1 Cmpt	
	<i>Shop Note:</i> <i>Install on the front side wall of the compartment, up high</i>	
007616	Receptacle, 120V, 5-20R Straight Blade, Duplex, Wired to Shoreline	
910917	Receptacle Location, In R1 Cmpt	
	<i>Shop Note:</i> <i>Install on the front side wall of the compartment, up high</i>	
007616	Receptacle, 120V, 5-20R Straight Blade, Duplex, Wired to Shoreline	
910914	Receptacle Location, In L3 Cmpt	
	<i>Shop Note:</i> <i>Install on the front side wall of the compartment, up high</i>	
007616	Receptacle, 120V, 5-20R Straight Blade, Duplex, Wired to Shoreline	
910919	Receptacle Location, In R3 Cmpt	
	<i>Shop Note:</i> <i>Install on the front side wall of the compartment, up high</i>	
110886	Cord Reel,Hannay, 120V, 200' 10/3 Yellow Cord, Terminate L5-20 Receptacle, Junction Box with Pigtail, Extenda-Lite	
	<i>Shop Note:</i> <i>Rewind switch to be in compartment L3. Use best judgement for installation location</i>	
901148	Junction Box Option, Powder Coat Gray	
910861	Junction Box Receptacle, 120V, 5-20R Straight-Blade, Duplex	
910861	Junction Box Receptacle, 120V, 5-20R Straight-Blade, Duplex	
910861	Junction Box Receptacle, 120V, 5-20R Straight-Blade, Duplex	
910861	Junction Box Receptacle, 120V, 5-20R Straight-Blade, Duplex	
910896	Cord Reel Location, On Top of Body, Above L3 Cmpt	
110918	Junction Box Mounting Bracket, Tread Plate	
	<i>Shop Note:</i> <i>Mount at final inspection</i>	
110886	Cord Reel,Hannay, 120V, 200' 10/3 Yellow Cord, Terminate L5-20 Receptacle, Junction Box with Pigtail, Extenda-Lite	
	<i>Shop Note:</i> <i>Rewind switch to be in compartment R3. Use best judgement for installation location</i>	
901148	Junction Box Option, Powder Coat Gray	
910861	Junction Box Receptacle, 120V, 5-20R Straight-Blade, Duplex	
910861	Junction Box Receptacle, 120V, 5-20R Straight-Blade, Duplex	
910861	Junction Box Receptacle, 120V, 5-20R Straight-Blade, Duplex	
910861	Junction Box Receptacle, 120V, 5-20R Straight-Blade, Duplex	

Option ID	Description	Ext Price
910900	Cord Reel Location, On Top of Body, Above R3 Cmpt	
110918	Junction Box Mounting Bracket, Tread Plate <i>Shop Note:</i> <i>Mount at final inspection</i>	
<u>Aerial</u>	<u>Aerial</u>	
003743	Construction and Dimensions, Mid Mount Ladder Structure (100' MMP)	
911146	Ladder Specifications (100' MMP)	
001837	Aerial Information Specification Plate	
121500	Aerial Test, Non-Destructive Testing (NDT), Independent Third Party Certification	
901000	Aerial Test, Structural Safety Factor, Stability Factor and Testing	
911156	Rung Covers	
003744	Ladder Travel Support/Cradle, Light, Cradle Interlock System (100' MMP)	
003749	Elevation System (100' MMP)	
911162	Extension/Retraction System (100' MMP)	
911168	Wear Pads/Bearing Surfaces	
911174	Rotation System, Bearing/Gear Box/Interlocks (100' MMP)	
911175	Cab / Body Damage Protection Interlock System	
001632	Aerial Power Take-Off	
003733	Hydraulic Pump with "Thru-Drive" (100'/93' MMP)	
003732	Hydraulic System (100' MMP)	
111765	Hydraulic Pressure Gauge, Rear Control Station, Inn. Cntrls, 2-1/2", TC Series, psi 0-5000	
001647	Hydraulic Pressure Filter, 3 Micron (Platforms)	
001650	Emergency Hydraulic Pump, Extra Duty (125'/Platforms)	
911194	Swivel	
101315	Aerial Angle Indicator, Base Section and Platform, Mid Mount	
001807	Aerial Extension Tape	
001464	Aerial Tool, Manual Rotation Drive Tool	
007720	Torque Box, Hot Dip Galvanized (100' MMP)	
010198	Stabilizers, Front and Rear "H" Style, 18' Spread, Standard Stroke, NO Stabilizer Pins (100' MMP)	
911181	Stabilizer Extension System (100' MMP)	
001594	Stabilizer Angle Level Gauges (2)	
001603	Ground Control System, Electric Over Hydraulic Controls, Front and Rear Stabilizers, Lower Center Rear, Horizontal, Brushed Stainless Doors	
001598	Stabilizer 2" Auxiliary Pads (4) with Racks Below Body	
111735	Stabilizer Cover Warning Lights (4), Whelen, 600 Series Super-LED (60R02FRR), Red, Activated with Aerial Master and Emergency Master <i>Shop Note:</i> <i>Red LED's, Red Lens</i>	
008768	Stabilizer Arm Warning Lights (8), Whelen, 5G Series Super-LED (5GR00FRR), Red	
003737	Stabilizer Work Lights (4), Truck-LiteLED (81380), Clear	
008328	Turntable, Standard (100' MMP)	

Option ID	Description	Ext Price
008323	Turntable Handrails, Knurled SS, Standard Turntable, (3) Openings (100' MMP)	
008350	Turntable Restraints, (2) ManSaver Bar and (1) Chain	
111717	Turntable Work Lights, (2) OnScene and (1) Truck-Lite, LED	
001614	Ladder Hour Meter, At Turntable	
111972	Turntable Control Console, Painted, Traditional, (3) Levers, IC Panel, On-Scene LED Light Under Lid (Platforms)	
111973	System Lock Control, Red Mushroom Switch on Turntable Console	
005943	Load Sensing System, Loadminder Display (Platform)	
000877	Air Horn Activation, Push Button on Turntable Control Console	
008271	Load Chart (100' MMP)	
003730	Communication System, 2-Way, Turntable-Tip, Atkinson (100' MMP)	
101354	Ladder Alignment Arrows, Turntable	
111832	Tracking Lights (2), 12V, On Front of Cradle, FRC LED SoBrite (SRA110-07A)	
111841	Tracking Lights Switch, Toggle Switch at Turntable Console	
003752	Platform Design/Construction/Deck Surface, Mid Mount Platform, Single Monitor	
911184	Platform Deck Work Lights, Optronics Mini LED (LPL-31CB)	
911185	Platform Access Gates, Mid Mount Platforms	
001630	Platform Control Console, Traditional, (3) Control Levers, IC Panels	
911188	Platform Auto Ramping Control	
911189	Platform Extending Egress Handrails	
911190	Platform Fall Protection Equipment "D" Rings	
911191	Platform Heat Shielding	
911192	Platform Leveling System	
911193	Platform Load Lifting Eyes	
006091	Platform Parapet Ground Ladder Attachment, Single Monitor Platforms <i>Shop Note: The lower bracket for the parapet will have an abraded finish. No Paint.</i>	
001818	Platform Rappelling Arm with Stokes, 500 lb	
001627	Platform Equipment Storage Box (1)	
007798	Axe Mounting Bracket (1), Fly Section, WITH Pickhead Axe (FAP-6)	
003735	Platform Marker Lights, Mid Mounts	
UPO0068641	Platform Warning Lights (4), Whelen, 600 Series Super LED, Red Specification: PLATFORM LED WARNING LIGHTS Four (4) Whelen 600 Series Super-LED lights shall be installed on the platform. The LED lights shall be installed one on each side of the platform and two on the front of the platform. The LED lights shall be red in color and flash any time the parking brake is released and the emergency master has been activated. All LED lights shall be wired through the aerial device swivel. 120V Aerial Wiring (100' MMP)	
008293		
UPO0068642	Receptacle (1), Rear Wall Inside of Platform, Officer's Side, 120V, 5-20R Straight Blade Duplex Specification:	

Option ID	Description	Ext Price
	120V RECEPTACLE	
	One (1) NEMA 5-20R, 120-volt, single, 3-wire, straight blade duplex receptacle shall be installed on the officer's side inside of the rear wall of the platform. The receptacle shall have a 20-ampere rating and include a spring-loaded weather resistant cover if mounted in an exterior location. The receptacle shall be wired to the onboard generator.	
111856	Tip Light (1), 12V, Whelen, LED Pioneer Plus (PFHP1P1) Floodlight, Switch on Lighthouse, White Housing, Pedestal Mount (PBAPEDD)	
911211	Tip Light Location, Front of Platform, Center	
111881	Tip Light(s) Switch, Toggle Switch at Turntable Console	
111876	Tip Light (1), 120V, Whelen, LED Pioneer Plus (PFP1AP1) Floodlight, Switch on Lighthouse, Pedestal Mount (PBAPEDA)	
911211	Tip Light Location, Front of Platform, Center	
111881	Tip Light(s) Switch, Toggle Switch at Turntable Console	
111890	Landing Lights (2), 120V, Whelen, LED Pioneer Plus (PFP2ACR)	
111892	Landing Light(s) Switches, Toggle Switch at Turntable Console and Platform	
111901	Platform Telescoping Lights (2), 120V, Whelen, LED Pioneer Plus (PFP1AP1) Floodlight, Pull-Up Poles (86930NA1), Switch on Lighthouse	
911200	Waterway System (100' MMP)	
911242	Standard Waterway, Non-Positional	
001713	Waterway Relief Valve / Drain Valve	
003821	Waterway Inlet, Officer's Side, 5" Inlet and 5" Plumbing (100' MMP)	
111784	Chrome Bushing, 5" NPT x 5" NH (IL3530AC) - Elbow (30 Deg.) 5" FNH x 5" Storz (AH3ST-NT) - Storz Cap (A01ST), Rocker Lug, TFT	
111795	Aerial Monitor, Electric, Akron, StreamMaster II 3480, NO Extended Vertical Range	
112017	Monitor Color, Akron White, Sherwin Williams #57433	
000981	Nozzle, Electric, Akron Akromatic 1500 GPM, 5178, 3-1/2" NH	
911207	Monitor Sweep, Platform, Single Monitor	
101173	Monitor Shut Off Valve, Single Monitor	
911210	Master Stream Controls, Turntable and Platform	
001729	Pre-connect, In Platform, 1-1/2", NST (100' RMP)	
003564	Discharge (1), In Platform, 2-1/2", NH (Single Monitor Platforms)	
	<i>Shop Note:</i>	
	<i>Be sure the 2-1/2" discharge is plumbed so it is outside of the ladder when the ladder is placed on the parapet ladder mount</i>	
005460	Cap, 2-1/2" NH, Chrome, South Park, HCC2808AC	
111931	Rung Lighting, Blue LED (100' MMP)	
111932	Rung Lighting Switch, Toggle Switch at Turntable Console	
007022	Ladder Signs (2), On Base Section	
101403	Stokes Basket Storage, Officer's Side Base Section, Painted Lid, Wired to Door Ajar, (77"/107"/UT100/100' MMP)	
911224	Stretcher, Dealer/Customer Supplied	
111950	Solid Beam Roof Ladder Storage, Driver's Side Base Section (100' MMP)	
001293	Ladder (1), Duo-Safety, 14' Aluminum Roof, 775-A	

Option ID	Description	Ext Price
111958	Pike Pole Storage, Officer's Side Fly Section, 10' Pole	
120637	Pike Pole (1), Fire Hooks Unlimited, 10' Steel, New York Roof Hook, Chisel End, RH-10	
Paint / Striping / Decals	<u>Paint / Striping / Decals</u>	
900717	Chassis Paint, Chassis Manufacturer Painted, Single Tone	
009165	Body Paint, Single Tone, Aerial, Aluminum Material	
901219	Non-Metallic Paint	
101843	Body Paint Color, Aerial, Single Tone, Red, AkzoNobel	
	<i>Shop Note: The non-metallic red paint code will be determined by the signing of the paint chips</i>	
101870	Ladder Paint Color, White, AkzoNobel (100' MMP/100' RMP/125')	
	<i>Shop Note: The non-metallic white paint code will be determined by the signing of the paint chips</i>	
901219	Non-Metallic Paint	
901036	Aerial Corrosion Protection	
101877	Platform Paint Color, White, AkzoNobel	
	<i>Shop Note: The non-metallic white paint code will be determined by the signing of the paint chips</i>	
901219	Non-Metallic Paint	
102537	Paint Platform Leveling Cylinders, Other Than Ladder Color, Non-Metallic	
911225	Ladder Sign Paint, Match Aerial Ladder Structure Color	
001170	Under Body Finish, Two-Step Undercoating Process	
006089	Corrosion Protection, Electrolysis Corrosion Kontrol (ECK)	
900875	Coating Material Technical Specification, Bedliner Coating	
001033	Sample Paint Card with Paint Formula	
911237	Reflective Lettering, White	
004523	Rub Rail Striping, 2", Silver, Reflective, Aerial	
121752	Stabilizer Beam Striping, Front and Rear, (4) Stabilizers, 4" Reflective Striping, White	
900935	Chevron Color, Red / Fluorescent Yellow-Green, 3M 1172EC & 3983	
007382	Chevron Layout, Rear Body Surface, EXCLUDE Torque Box Door	
	<i>Shop Note: The unpainted stainless steel outrigger control doors and ground station doors will also be chevron</i>	
Warranties	<u>Warranties</u>	
RFW0002	General Two (2) Years or 36,000 Miles Limited Warranty	
RFW0502	Body Structure (Aluminum) Ten (10) Years or 100,000 Miles Limited Warranty	
RFW0403	Aerial Ladder Structure Twenty (20) Years or 100,000 Miles Limited Warranty	
RFW0421	Aerial Leak-Free Hydraulics Three (3) Years or 48,000 Miles Limited Warranty	
RFW0810	Aerial Waterway Ten (10) Years or 100,000 Miles Limited Warranty	

Option ID	Description	Ext Price
RFW0202	Electrical Two (2) Years or 36,000 Miles Limited Warranty	
RFW0800	Plumbing and Piping (Stainless Steel) Ten (10) Years or 100,000 Miles Limited Warranty	
WLF800	Warranty, Water Tank, UPF, Standard Lifetime	
RFW0710	Paint and Finish (Exterior Clear coated) Ten (10) Years Limited Warranty	
W05810-A	Warranty, Pump, Waterous, Standard 7 Year	