



## ACCEPTANCE OF SHOP ORDER AND APPROVAL DRAWINGS

We appreciate your order for a Ferrara apparatus. In order to confirm our mutual understanding of the vehicle we will be building for you; we ask that you carefully review the enclosed shop order and approval drawings. If these documents meet with your approval, we ask that you initial at the bottom of each page of the shop order, sign the approval drawings and this acceptance form and return each set of the original documents to Eric Adams within 14 days of receipt. We also suggest that you retain a copy of each set of documents for your files.

The approval drawings and shop order are the plans and instructions we will use to build your vehicle and to ensure that it is built to your specific criteria. As your vehicle moves through our production process, these documents will be used for all inspections and quality assurance. Any modifications or changes you wish to make to your vehicle after acceptance by you of the shop order and approval drawings must be accompanied by a written change order request that we provide. The change order request will be reviewed by engineering for approval. These change orders must be acknowledged and approved by both parties and will supersede any previously issued specifications and approval drawings with regards to the changed items only. Each change order issued after acceptance of these shop order and approval drawings will result in an administrative change order fee of \$150 per change order in addition to the price of the items changed. Major body changes will not be allowed after the unit has entered the construction process.

If you have any questions with regard to the enclosed documents, please contact your sales representative. We appreciate your business and look forward to providing you with the best built apparatus in the industry.

Ferrara Truck Number: H7288

Department/Customer: Bulldog Fire Apparatus Cinder Low Hose Bed Retail Unit

Signature: *Christopher Kuzio*

Printed Name: \_\_\_\_\_

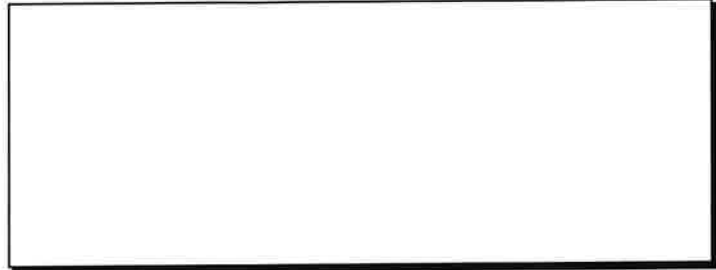
Title: \_\_\_\_\_

Date: 11/15/2023



Shop Order

Bulldog Fire Apparatus  
 Chris Kuzio  
 17 Winter Street  
 P.O. Box 58  
 Woodville, MA 01784  
 ckuzio@bulldogfa.com



**Exp. Date:** 05/31/2023    **Create Date:** 05/01/2023    **Rev. Date:** 11/14/2023  
**Quote No:** BFACinderLHB-0001  
**Job/Order No:** H7288  
**PUMPER:** FMP-35-100    Custom Pumper - Extruded / Modular  
**LEGALs:** FFA-00-300    Legals - Pumpers (1022V1)  
**CHASS-CUSM:** FCH-30-100    Chassis - Custom Tilt Cab  
**CHASS-MODS:** FCM-10-300    Chassis Modifications - Custom  
**PUMP-ENC:** FPE-20-100    Pump Enclosure - Side Mount  
**BODY:** FBP-33-200    Body - Extruded Pumper (500-1250 Gallons)  
**BODY-CMNT:** FBC-30-100    Body Components - Pumpers  
**ELE-CMPNT:** FEC-30-200    Elec. Components - Pumper Custom  
**PAINT:** FPC-10-200    Paint - Extruded Bodies  
**WRNTY-MNLS:** FWM-50-100    Warranty / Manuals - Pumpers Custom  
**EQUIPMENT:** FEP-30-100    Loose Equipment Pkg. - Pumper

11/14/2023

PART NO	S	DESCRIPTION	QTY	ID
		== Legals - Pumpers (1022V1) - 1022.001 10/01/22 ==		FE
00-02-2420		Proposal Response (Pumper)	1	FE
00-06-0420		Payment Terms: Ferrara Standard	1	FE
00-12-0220		Single Source Manufacturer	1	FE
00-12-0420		Manufacturer - Virtual	1	FE
00-12-0620		Principal Dimensions	1	FE
		<b>The apparatus shall have the following dimensions:</b>		
		<b>Overall Length: ~31'-1/2"</b>		
		<b>Overall Height: ~9' 9"</b>		
		<b>Wheelbase: ~188"</b>		
		<b>Cab to Axle: ~126"</b>		
00-12-0820		Certified Welders	1	FE
00-14-0620		Drawings - Approval	1	FE
00-18-0820		Vehicle Transportation - DEALERS ONLY!!!!!!!	1	FE
00-18-2020		Delivery Time - Pumpers / Tankers	1	FE
		<b>The pumper / tanker apparatus will be delivered within 650 normal working</b>		

PART NO	S	DESCRIPTION	QTY	ID
		days after receipt of the signed off approval package.		
		The manufacturer will not be held liable for changes arising from its failure to make or delay in making delivery because of fire, flood, strike, riot, supply chain, work force shortages, accidents, acts of God or any circumstances beyond our control.		
00-18-2820		Vehicle Familiarization & Demonstration == <i>Chassis - Custom Tilt Cab - 1022.001 10/01/22</i> ==	1	FE FE
00-D2-0420		Custom XD Full Tilt Cab - Cinder <b>WHEELBASE / FRAMERAILS / COMPONENTS / ACCESSORIES</b>	1	FE FE
02-A2-0220		Wheelbase The chassis wheelbase will be ____ inches.	1	FE
02-A4-0420		Frame Rails - Double	1	FE
02-A4-2420		<i>Paint - Frame Rail, Hot Dipped Galvanized</i>	1	FE
02-A6-1620		<i>Tow Hooks - Painted, Below the Bumper</i> <b>FRONT BUMPERS / COMPONENTS / ACCESSORIES</b>	1	FE FE
02-B2-1420		<i>Front Bumper - 12" High, Steel Channel Style</i> The bumper will be painted job color.	1	FE
02-B2-2020		<i>Bumper Notch - Q2 Siren Mounting</i> The notch will be located on the officer's side of the front bumper in position P1.	1	FE
02-B2-2220		Front Bumper Feature Position	1	FE
02-C4-1420		<i>Front Bumper Extension - 18"</i>	1	FE
02-D2-0220		Gravelshield - Front Bumper Extension	1	FE
02-D4-0620		<i>Compartment - Front Bumper, Center</i>	1	FE
02-E4-0420		<i>Restraining Strap - Center Compartment</i>	1	FE
02-M2-0220		<i>Mechanical Siren - Federal Q2B, Surface Mounted</i> The siren will be surface mounted in the position P1 front bumper notch.  The siren brake switch will be located within reach of the driver.	1	FE
02-M8-0220		<i>Siren Wiring - Active in Response Mode Only</i>	1	FE
02-M8-1020		<i>Switches - Siren (2), Driver/Officer Side Floor</i>	1	FE
02-M8-1420		<i>Additional Siren Brake Switch - Q2B Siren</i> The additional switch will be located on the officer's dash.	1	FE
02-P2-0220		Air Horn - Driver's Side Thru Bumper, Hadley Round E-Tone The air horn will be located on the driver's side of the front bumper in position P6.	1	FE
02-P2-0420		Air Horn - Passenger's Side Thru Bumper, Hadley Round E-Tone The air horn will be located on the passenger's side of the front bumper in position P2.	1	FE

PART NO	S	DESCRIPTION	QTY	ID
02-P6-1020		<i>Air Horn Lanyards (2) - Driver/Officer</i>	1	FE
02-P8-0420		Air Horn Wiring - Active All Modes	1	FE
02-R4-0420		Siren Speaker - Cast Product SA2401	1	FE
		<b>The speaker will be located on the driver's side of the front bumper in position P7.</b>		
		<b>FRONT AXLES / COMPONENTS / ACCESSORIES</b>		FE
04-A2-0420		Front Axle - 20,000 Pounds, Hendrickson Steertek	1	FE
04-A6-0820		Steering System - Sheppard, 18,000 to 24,000 Pounds	1	FE
04-A8-0220		Chassis Alignment	1	FE
04-B2-0420		Front Suspension - 20,000 Pounds, Hendrickson Steertek	1	FE
04-C2-0220		Front Brakes - S-Cam, 16-1/2" x 6"	1	FE
04-C4-0820		Cramp Angle - 45 Degrees	1	FE
04-D4-0620		Front Tires - Michelin 385/65R 22.5 "L" 20,000 Pounds (All Weather Tread)	1	FE
04-E2-2620		<i>Front Wheels - 22-1/2" x 12-1/4", Alcoa Aluminum w/Dura Bright Finish</i>	1	FE
04-E4-0220		<i>Wheel Trim - Front, Baby Moons / Lug Nut Covers</i>	1	FE
04-E4-2020		Mud Flaps - Front	1	FE
		<b>SINGLE REAR AXLES / COMPONENTS / ACCESSORIES</b>		FE
04-G2-0420		Rear Axle - 27,000 Pounds, Meritor RS-25-160	1	FE
04-K2-8020		Rear Suspension - 27,000 Pounds, Spring	1	FE
04-M2-0220		Standard Differential - Single Axle	1	FE
04-M6-0820		Vehicle Top Speed: 65-68 MPH	1	FE
04-P2-0620		<i>Rear Brakes - S-Cam 16-1/2" x 8.62"</i>	1	FE
04-R4-0820		<i>Rear Tires - Michelin 12R22.5 "H" 27,000 Pounds (Severe Winter Traction Tread)</i>	1	FE
04-S2-2220		<i>Rear Wheels - 22-1/2" x 8-1/4", Alcoa Aluminum w/Dura Bright Finish</i>	1	FE
04-S2-6020		<i>Wheel Trim - Rear, High Hat Covers / Lug Nut Covers</i>	1	FE
04-S4-0220		<i>Valve Stem Extensions (2) - Single Rear Axle</i>	1	FE
04-S6-1220		Tire Pressure Monitor (Single Rear Axles) - LED Alert	1	FE
04-T4-2220		<i>Wheel Trim - Baby Moons / High Hats Covers</i>	1	FE
		<b>AIR BRAKE SYSTEM / COMPONENTS</b>		FE
06-A2-0220		Harness and Hose Routing System	1	FE
06-A2-0820		<i>Air Brake System - Wire Braided Lines w/1/4 Turn Drain Valves</i>	1	FE
06-A2-6020		Air Compressor - Wabco 18.7 CFM	1	FE
06-A4-4020		ABS/ATC/ESC System - SINGLE AXLE	1	FE
06-B4-2020		Air Dryer - Bendix AD-9	1	FE
		<b>ENGINES / COMPONENTS / ACCESSORIES</b>		FE
08-A2-1020		Engine - 450 HP, Cummins L9 (MY2022)	1	FE
08-B2-0620		Engine Brake - Cummins L Series Engines	1	FE
		<b>ENGINE / COMPONENTS / COOLING SYSTEM - L SERIES</b>		FE
		<b>ENGINES</b>		
08-C2-0420		Cooling System - 1400 Square Inch Radiator	1	FE
08-C2-1420		Cooling System Fan - Cummins L Series Engines	1	FE
08-C2-2620		Radiator Coolant - Extended Life	1	FE

PART NO	S	DESCRIPTION	QTY	ID
08-C2-4220		Coolant Hoses - Premium Rubber	1	FE
08-C2-4420		Coolant Hose Clamps - Gates PowerGrip	1	FE
08-C2-6020		Auxiliary Engine Cooler	1	FE
		<b>ENGINE / COMPONENTS / CHARGING SYSTEMS</b>		<b>FE</b>
08-D2-2220		Alternator - 430 AMP, Delco Remy 55SI	1	FE
<b>08-E2-0630</b>		<b>Battery System (6) - DEKA D-31AGM-925 (925 CCA Each)</b>	<b>1</b>	<b>FE</b>
08-E4-0220		Battery Boxes - Stainless Steel	1	FE
<b>08-E4-2020</b>		<b>Covers - Battery Box, Stainless Steel</b>	<b>1</b>	<b>FE</b>
08-E6-0220		Battery Master Load Disconnect	1	FE
08-G2-2620		Receptacle - Battery Charging, Kussmaul VW-8 (15A/12V)	1	FE
08-G4-0220		Cover - Battery Charging Receptacle Yellow, Kussmaul 091-3YW	1	FE
<b>08-G4-4020</b>		<b>Receptacle Location - Driver's Side Cab Wheel Well Area</b>	<b>1</b>	<b>FE</b>
		<b>TRANSMISSION / COMPONENTS / ACCESSORIES</b>		<b>FE</b>
10-A2-0220		Transmission - Allison 3000 EVS	1	FE
10-A4-0620		Transmission Push Button Shifter - 5 Speed	1	FE
10-H2-0220		Drive line - 1710 Series	1	FE
10-H4-1820		Fire Pump Installation	1	FE
		<b>FUEL SYSTEM / COMPONENTS - L SERIES ENGINES</b>		<b>FE</b>
10-J2-0220		Fuel Tank - 50 Gallon	1	FE
10-J4-0220		Fuel Lines - Reinforced Wire Braided	1	FE
<b>10-J4-0420</b>		<b>Valve - Fuel Shutoff</b>	<b>1</b>	<b>FE</b>
<b>10-J4-0620</b>		<b>Fuel Re-Prime Pump - Electric</b>	<b>1</b>	<b>FE</b>
10-J4-2020		Fuel Water Separator - Primary Filter	1	FE
10-J4-2620		Fuel Filter - Secondary Filter	1	FE
10-J6-0820		DEF System w/5 Gallon Tank - Left Rear Under Cab	1	FE
10-J8-2020		DEF Fill w/Door - Left Crew Cab Extension	1	FE
10-M2-0820		Exhaust System - EPA 2022	1	FE
		<b>CAB CONFIGURATIONS - CINDER XD - SMFD thru LFD</b>		<b>FE</b>
12-C2-0220		Custom Cab - Ferrara Extreme Duty	1	FE
12-C4-2220		Custom Cab - Ferrara XD 96 XMFD	1	FE
12-C6-0820		Cab Roof - 8" Raised	1	FE
12-P2-1020		Cab Doors - Full Length, 4 Door Raised Roof Cab	1	FE
12-P4-0220		Cab Door Hinges - Piano	1	FE
12-P6-0820		Cab Door Locks - Manual Paddle Type (4 Door Cab)	1	FE
12-P8-1020		Window Regulators - Electric (4 Door Cab)	1	FE
12-R2-0620		Window - Left Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R2-0820		Window - Right Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R4-0420		Cab Tilt Lock Suspension (Full Tilt Cab)	1	FE
12-R4-2020		Cab Tilt Electric Pump	1	FE
<b>12-R4-6420</b>		<b>Active Air Purification System - 120 VAC CAPS Mini</b>	<b>1</b>	<b>FE</b>
		<b>The unit will be ceiling mounted over the engine tunnel.</b>		
<b>12-R4-6620</b>		<b>Receptacle - 20 AMP/120V Duplex Household</b>	<b>1</b>	<b>FE</b>
		<b>CUSTOM CAB - EXTERIOR TRIM COMPONENTS</b>		<b>FE</b>
14-A2-0420		Front Grille - Stainless Steel	1	FE
14-A2-1620		Front Grille Logo - Ferrara/NON-Lighted	1	FE
14-A2-6220		Side Grille w/Ember Separator - Notched Right Side	1	FE

PART NO	S	DESCRIPTION	QTY	ID
14-A4-0620		Cab Mirrors - Heated/Remote, Velvac Stainless Steel	1	FE
14-A6-0220		Exterior Trim - Cab Handrails, Knurled Stainless Steel	1	FE
14-A6-1620		Fenderettes - Polished Stainless Steel	1	FE
14-A6-2020		Exterior Trim - Rear Step Well w/Removable Battery Access Covers	1	FE
14-A6-8220		Exterior Trim - Tread Plate, Back of Cab	1	FE
14-A8-0220		Exterior Trim - Tread Plate, Cab Roof	1	FE
		<b>CUSTOM CAB - INTERIOR TRIM COMPONENTS</b>		<b>FE</b>
<b>14-G2-0420</b>		<b><i>Deluxe Insulation - Under Cab</i></b>	<b>1</b>	<b>FE</b>
14-G2-1020		Corrosion Protection/Sound Deadening - "F-Shield"	1	FE
14-G4-0220		Interior Cab Finish - "F-Shield" Dark Gray	1	FE
14-G4-2220		Interior Trim - Gray Floor Mats/Engine Tunnel Covering	1	FE
14-G4-6420		Interior Trim - Sprayed Aluminum, Rear Wall	1	FE
14-G6-0420		Interior Trim - Grab Handles (4 Door Cab)	1	FE
14-G6-4020		Interior Trim - Officer's Dash, Glove Box	1	FE
14-G6-6020		Interior Trim - Sun Visors (3)	1	FE
14-H2-0820		Interior Trim - Upper Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H2-4220		Interior Trim - Lower Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H4-1220		Interior Trim - Lower Door Panels Reflective Stop Sign (4 Door Cab)	1	FE
<b>14-H4-2420</b>		<b><i>Interior Trim - Mounting Plate, Raised Engine Tunnel Section</i></b>	<b>1</b>	<b>FE</b>
		<b>CUSTOM CAB - INSTRUMENTS AND CONTROLS</b>		<b>FE</b>
14-K2-0420		Cab Instrumentation & Controls - Standard Gauges	1	FE
14-K2-0620		Driver's Information Display Panel	1	FE
14-K2-0810		Electrical System - Chassis, E2020	1	FE
14-K2-2020		Doghouse Mounted Switch Panel - Ferrara XD Aluminum	1	FE
14-K4-4020		Steering Column w/Self Canceling Turn Signals - Douglas	1	FE
14-P2-1620		Heat/Air Conditioning - Under Dash and Rear Crew Area (L Series Engines)	1	FE
14-P2-2420		A/C Condenser Housings: Black	1	FE
		<b>CUSTOM CAB / SEATING / AIR BAG PROTECTION / EMS COMPARTMENTS</b>		<b>FE</b>
<b>16-A2-4020</b>		<b><i>Seating / EMS Compartments - Valor</i></b>	<b>1</b>	<b>FE</b>
<b>16-A8-0820</b>		<b><i>Seat Material - VALORTech XD</i></b>	<b>1</b>	<b>FE</b>
<b>16-A8-1420</b>		<b><i>Seat Color - Black</i></b>	<b>1</b>	<b>FE</b>
<b>16-A8-4820</b>		<b><i>Seat Belts - ABTS w/Dual Retractors &amp; Ready Reach</i></b>	<b>1</b>	<b>FE</b>
<b>16-A8-6420</b>		<b><i>SCBA Seats Brackets - IMMI Smart Dock</i></b>	<b>5</b>	<b>FE</b>
<b>16-A8-8020</b>		<b><i>No Filler Panels Required</i></b>	<b>1</b>	<b>FE</b>
<b>16-B4-6420</b>		<b><i>Seat - Driver, USSC Valor Air Suspension Base (G2ELP)</i></b>	<b>1</b>	<b>FE</b>
<b>16-B4-8620</b>		<b><i>Seat - Officer, USSC Valor Fixed Base/SCBA</i></b>	<b>1</b>	<b>FE</b>
<b>16-C2-2420</b>		<b><i>Seat - DS Rear Facing Crew, USSC Valor Fixed Base/SCBA</i></b>	<b>1</b>	<b>FE</b>
<b>16-D2-2420</b>		<b><i>Seat - OS Rear Facing Crew, USSC Valor Fixed Base/SCBA</i></b>	<b>1</b>	<b>FE</b>
<b>16-E2-6420</b>		<b><i>Seats (2) - IB Forward Facing Crew, USSC Valor Fixed Base/SCBA/Flip Bottom</i></b>	<b>1</b>	<b>FE</b>
		<b>CUSTOM CAB - ACCESSORIES</b>		<b>FE</b>
16-M2-0620		Accessory Panel - Blue Sea 4365	1	FE
<b>16-M2-1020</b>		<b><i>Fuse Block - 12-Volt 12-Place, Blue Sea 5026</i></b>	<b>1</b>	<b>FE</b>
		<b>The fuse block will be located on the side of the engine tunnel behind the officer's seat.</b>		

PART NO	S	DESCRIPTION	QTY	ID
16-M2-2920		<b>Radio Antenna Mount / Wiring - NMO</b> <b>The coaxial cables will terminate behind the officer's seat.</b>	2	FE
16-M2-4020		<b>Radio 12-Volt Power Circuit</b> <b>The radio power will be located behind the officer's seat.</b>	1	FE
16-M2-6020		Accessory Power & Ground Stud	1	FE
16-M4-2420		Electronic Siren - Whelen 295SLSA1	1	FE
16-M6-0620		Electric Horn - Single	1	FE
16-M6-2020		Back Up Alarm - NFPA Compliant	1	FE
		<b>CUSTOM CAB - INTERIOR LIGHTING</b>		FE
16-P2-0220		Lights (4) - LED Cab Dome, 6" Red/Clear Whelen 60CREGCS	1	FE
16-P2-2420		Light - Open Door w/Alarm, Whelen TIR3 LED	1	FE
16-P4-0220		Lights (6) - Step Well, LED	1	FE
16-R4-0420		Lights (2) - Engine Maintenance, LED	1	FE
		<b>CUSTOM CAB - EXTERIOR ILLUMINATION</b>		FE
18-A2-0820		<b>Front Cab Lighting - Federal LED</b>	1	FE
18-A4-0830		<b>Headlights - LED, FireTech FT-4X6-4KIT</b>	1	FE
18-A6-0435		<b>Lights (2) - Turn Signal, Federal FR6-ARROW LED (Headlight Module Mounted)</b>	1	FE
18-A6-1220		<b>Lights (2) - Turn Signal/Marker, Whelen 400 Series LED</b>	1	FE
18-A6-6020		<b>Lights (2) - Cornering, LED</b>	1	FE
18-A6-6220		<b>Lights - DOT, LED</b>	1	FE
18-B4-2420		<b>Lights (2) - Inboard Lower Front Warning, Federal FR6-R LED (Red)</b>	1	FE
18-D2-0820		Lights (4) - LED Cab Ground	1	FE
		<b>AUDIO / VISUAL COMMUNICATION SYSTEMS</b>		FE
18-M2-0220		<b>Camera - Back Up w/Color Monitor, FRC TRUSIGHT BCA111-A00</b> <b>The camera will be located in the left front cab corner.</b>	1	FE
		<b>== Chassis Modifications - Custom - 1022.001 10/01/22 ==</b>		FE
		<b>NFPA SAFETY SIGNS</b>		FE
18-P2-0220		Safety Signs - General Requirements	1	FE
18-P2-0420		Safety Signs - Battery Explosion, FAMA01	1	FE
18-P2-0620		Safety Signs - Rotating Shafts, FAMA02	1	FE
18-P2-0820		Safety Signs - Hot Surfaces, FAMA03	1	FE
18-P2-1020		Safety Sign - Hot Exhaust, FAMA04	1	FE
18-P2-1220		Safety Sign - Spinning Fan, FAMA05	1	FE
18-P2-1420		Safety Signs - Seated & Belted, FAMA07	1	FE
18-P2-1620		Safety Sign - Air Conditioning Refrigerant, FAMA09	1	FE
18-P2-1820		Safety Sign - Cab Equipment Mounting, FAMA10	1	FE
18-P2-2020		Safety Sign - Fire Service Tire Rating, FAMA12	1	FE
18-P2-2220		Safety Sign - Electronic Stability Control, FAMA13	1	FE
18-P2-2420		<b>Safety Sign - Cab Seating, FEMA14</b> <b>This vehicle has a seating capacity of 6 personnel.</b>	1	FE
18-P2-2620		Safety Signs - Helmet Worn in Cab, FAMA15	1	FE

PART NO	S	DESCRIPTION	QTY	ID
18-P2-2820		Safety Sign - Vehicle Backing, FAMA17	1	FE
18-P2-4020		Safety Signs - Intake/Discharge Cap Pressure, FAMA18	1	FE
18-P2-4220		Safety Signs - Hose Restraint Required, FAMA22	1	FE
18-P2-4420		Safety Signs - Climbing Method Instruction, FAMA23	1	FE
18-P2-4620		Safety Signs - Riding on Exterior, FAMA24	1	FE
18-P2-4820		Safety Sign - Pump Training, FAMA25	1	FE
18-P2-6020		Safety Signs - No-Step, FAMA26	1	FE
18-P2-6220		Safety Sign - Siren Noise, FAMA42	1	FE
18-P4-1020		Safety Sign - Apparatus Movement Warning	1	FE
18-P6-0220		Plate - Fluid Capacity	1	FE
18-P6-0420		Plate - Overall Height / Length / Weight	1	FE
		<b>== Pump Enclosure - Side Mount - 1022.001 10/01/22 ==</b>		<b>FE</b>
20-A2-0220		Pump Module - Side Mounted Extruded / Modular	1	FE
20-A4-2220		Separate Pump Module - Extruded / Modular	1	FE
20-A4-4020		Trim - Dunnage Area, Tread Plate	1	FE
<b>20-C2-0620</b>		<b>Pump Panels - Brush Stainless Steel</b>	<b>1</b>	<b>FE</b>
20-C6-1020		Pump Panel - Fully Hinged, Right Side	1	FE
<b>20-C6-2222</b>		<b>Access Panel - Front Pump Module (No Door)</b>	<b>1</b>	<b>FE</b>
20-D6-0220		Light - Left Side Pump Panel, LED Strip	1	FE
20-D6-1220		Light - Right Side Pump Panel, LED Strip	1	FE
<b>20-D6-6220</b>		<b>Pump Panel Light Activation - Pump Gear</b>	<b>1</b>	<b>FE</b>
20-D8-0620		Light - Pump Compartment, LED	1	FE
20-F4-0420		Running Boards - Aluminum Tread Plate, Left & Right Side	1	FE
<b>20-F4-2220</b>		<b>Hose Trays (2) - Running Boards, Left &amp; Right Side</b>	<b>1</b>	<b>FE</b>
<b>20-F4-2820</b>		<b>Hose Tray Mounting - Floating/Drop In Style w/45-Degree Bottom Corners</b>	<b>1</b>	<b>FE</b>
<b>20-G2-0220</b>		<b>Handrails (2) - Above Pump Panel, 12" Knurled Stainless Steel</b>	<b>1</b>	<b>FE</b>
<b>20-H4-0220</b>		<b>Air Outlet - Pump Panel</b>	<b>1</b>	<b>FE</b>
<b>20-H4-0820</b>		<b>Switch - Air Horn, Pump Panel</b>	<b>1</b>	<b>FE</b>
<b>20-J2-0220</b>		<b>Gauges - Master Suction / Pressure, 4-1/2" White Face</b>	<b>1</b>	<b>FE</b>
<b>20-J4-1620</b>		<b>Pressure Governor - FRC Pump Boss PBA500-D10</b>	<b>1</b>	<b>FE</b>
<b>20-J4-4020</b>		<b>Return Line - Fill Subsurface</b>	<b>1</b>	<b>FE</b>
20-J6-0220		Gauges - 2-1/2" Pressure, White Face	1	FE
20-J6-6020		Gauge Bezels - Chrome	1	FE
20-M4-0220		Tags - Pump Panel, Color Coded (Metal)	1	FE
		<b>PUMP / COMPONENTS / ACCESSORIES</b>		<b>FE</b>
<b>22-A4-0820</b>		<b>Pump System - 1250-2000 GPM Single Stage, Waterous CSU</b>	<b>1</b>	<b>FE</b>
<b>22-F4-0220</b>		<b>Packing Glands - Waterous</b>	<b>1</b>	<b>FE</b>
<b>22-F4-1420</b>		<b>Flame Plated Impeller Hub - Waterous</b>	<b>1</b>	<b>FE</b>
<b>22-G2-0220</b>		<b>Pump Shift - Cab Mounted</b>	<b>1</b>	<b>FE</b>
<b>22-J8-0820</b>		<b>Primer - Automatic Air, Trident 31.001.0 (1250+ GPM)</b>	<b>1</b>	<b>FE</b>
<b>22-M2-0220</b>		<b>Anodes - Pump Corrosion (Each)</b>	<b>2</b>	<b>FE</b>
<b>22-P2-0220</b>		<b>Valve - Master Pump Drain</b>	<b>1</b>	<b>FE</b>
<b>22-P2-1220</b>	<b>S</b>	<b>Valve - Individual Drain, 3/4" ICI Lift-Up Style</b>	<b>1</b>	<b>FE</b>
<b>22-R2-0420</b>		<b>Pump Test Points - Waterous Pumps</b>	<b>1</b>	<b>FE</b>
<b>22-R2-1820</b>		<b>Certification - Pump, 1500 GPM Pump</b>	<b>1</b>	<b>FE</b>
<b>22-R4-0420</b>		<b>Plate - Pump Test Certification</b>	<b>1</b>	<b>FE</b>



PART NO	S	DESCRIPTION	QTY	ID
24-A2-1620		Steamer Inlets - 6" w/Long Handle Cap, Left & Right Side	1	FE
24-J8-0420		Valve - Intake Relief	1	FE
24-R2-0420		Tank-To-Pump - 3" Valve w/Push-Pull Control	1	FE
24-S6-0820		Tank Fill - 2" Valve w/Push-Pull Control	1	FE
24-T2-0420		Cooler - Engine, 1/2" Line w/ 1/4 Turn Valve	1	FE
24-T2-0620		Cooler - Pump, 3/8" Line w/ 1/4 Turn Valve	1	FE
24-W2-0220		<b>Plumbing - Stainless Steel</b>	1	FE
24-W2-0620		<b>Plumbing - Stainless Steel Foam Manifold</b>	1	FE
24-W4-0220		<b>Plumbing Finish - Natural</b>	1	FE
26-A2-0820		<b>Apparatus Valves - Akron Brass 8800 Series / Waterous</b>	1	FE
26-D2-0420		Suction - Left Side, 2-1/2" Valve w/Swing Control at Valve	1	FE
28-00-0100		DISCHARGE OUTLETS - SIDE MOUNT	1	FE
28-00-0220		All 2-1/2" Side Discharge Outlets Terminate 30-Degree Elbows	1	FE
28-A2-0220		<b>Discharge - Front Bumper w/ Swivel - thru Tread Plate (DS)</b>	1	FE
28-A8-0220		<b>Discharge - Front Bumper, 2" Valve w/Push Pull Control</b>	1	FE
28-A8-6020		<b>Discharge - Swivel Stop, Tread plate</b>	1	FE
28-D4-0420		Crosslays (2) - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D6-2020		<b>Crosslay - Double Lay, 2-1/2" Valve w/Push Pull Control</b>	1	FE
28-D8-0820		Cover - Hypalon w/End Flaps, Crosslays	1	FE
28-D8-2220		End Flaps - Hypalon w/Snaps, Crosslays	1	FE
28-D8-6020		Cover/End Flaps Color: Red	1	FE
28-H8-0420		Discharges (2) - Left Side, 2-1/2" Valve w/Push-Pull Control	1	FE
28-K4-0220		<b>Discharge - Right Side, 2-1/2" Valve w/Push-Pull Control</b>	1	FE
28-K4-4020		<b>Discharge - Right Side, 3" Valve w/Push Pull Control</b>	1	FE
28-Q2-0220		Discharge - Deck Gun, 3" Valve w/Push Pull Control	1	FE
28-R2-0220		<b>Telescoping Waterway - 3" Manual, TFT XG**VL-PL Extend-A-Gun</b> <b>The waterway will telescope 18".</b>	1	FE
28-T2-1020		<b>Discharge - RF Hose bed, 2-1/2" Valve w/Push-Pull Control</b>	1	FE
28-V2-1020		Discharge - Left Rear, 2-1/2" Valve w/Push-Pull Control	1	FE
28-V8-8020		Elbow - 2-1/2 FNST x 2-1/2" MNST Chrome 30 Degree, Trident 01.010.0	1	FE
30-C2-0620		<b>Foam System - Foam Pro 2001</b>	1	FE
30-J2-2020		<b>Gauge - Class A Foam, FRC Tank Vision Pro WLA360-A00</b>	1	FE
30-K2-1220		<b>Tank Switch (1) Low Level</b>	1	FE
30-M4-0620		<b>Flowmeter - Tee Mount w/Coupling Kit</b>	1	FE
30-R2-0620		<b>Placard - Operating System, Single Tank</b>	1	FE
30-R8-0220		<b>NFPA Test - Foam Proportioning Systems</b>	1	FE
30-S2-0420		<b>Foam Tank No. 1 - Polypropylene, 20 Gallons</b>	1	FE
30-T2-0200		<b>FOAM OUTLET LOCATIONS:</b>	1	FE
30-T2-0420		<b>Foam Outlet - Discharge Front Bumper</b>	1	FE
30-T2-0620		<b>Foam Outlet - Crosslay No. 1</b>	1	FE
30-T2-0820		<b>Foam Outlet - Crosslay No. 2</b>	1	FE
		<b>== Body - Extruded Pumper (500-1250 Gallons) - 1022.001 10/01/22</b>		FE
		<b>==</b>		
		<b>WATER TANKS / COMPONENTS / ACCESSORIES</b>		FE
32-A2-4220		<b>Water Tank - Polypropylene, 1000 Gallons</b>	1	FE

PART NO	S	DESCRIPTION	QTY	ID
32-A6-0220		<i>Special Tank Configuration - "L" Shaped</i>	1	FE
32-D8-0420		<i>Certification - NFPA Water Tank Size</i>	1	FE
34-A2-1220		<i>Gauge - Water Level, Tank Vision Pro WLA300-A00</i>	1	FE
34-B2-1420		<i>Lights (2) - Water Level, FRC MAXVISION WLA280-A00</i>	1	FE
		<b>There will be one-(1) light mounted on each side of the apparatus on the cab extensions as high as possible.</b>		
		<b>The lights will be activated when the park brake is applied.</b>		
52-A2-0220		Body - 96" Wide, Extruded Aluminum	1	FE
52-A6-4020		Body Sub Frame - Extruded Aluminum	1	FE
52-A6-6020		Body/Compartment Construction - 96" Wide Body	1	FE
52-A6-8020		Compartment Tops/Catwalk - Standard	1	FE
52-A8-0420		<i>Wheel Well Panels &amp; Fenders - Body, Painted Aluminum</i>	1	FE
52-A8-0620		<i>Fenderettes - Polished Stainless Steel</i>	1	FE
52-A8-1020		Hose Bed - 67-1/2" Wide	1	FE
52-D6-4220		Compartments- Left Side, Rescue Style	1	FE
		<b>L1</b>		
		<b>There shall be one-(1) left front compartment installed ahead of the rear axle. The interior dimensions will be approximately 36" wide x 64" high x 25" deep in the lower section and 12" deep in the upper section.</b>		
		<b>L2</b>		
		<b>There shall be one-(1) compartment installed above the wheel well. The interior dimensions will be approximately 58" wide x 32" high x 12" deep.</b>		
		<b>L3</b>		
		<b>There shall be one-(1) left rear compartment installed behind the rear axle. The interior dimensions will be approximately 44" wide x 64" high x transverse in the lower section and 12" deep in the upper section.</b>		
52-H4-6220		<i>Compartments - Right Side, Rescue Style</i>	1	FE
		<b>R1</b>		
		<b>There will be one-(1) right front compartment installed ahead of the rear axle. The interior dimensions will be approximately 36" wide x 64" high x 25" deep in the lower section and 12" deep in the upper section.</b>		
		<b>R2</b>		
		<b>There will be one-(1) compartment installed above the wheel well. The interior dimensions will be approximately 58" wide x 32" high x 12" deep.</b>		
		<b>R3</b>		
		<b>There will be one-(1) right rear compartment installed behind the rear axle. The interior dimensions will be approximately 44" wide x 64" high x transverse in the lower section and 12" deep in the upper section.</b>		

PART NO	S	DESCRIPTION	QTY	ID
52-J8-0420		Compartment - Center Rear, Standard Height <b>B1</b> <b>There shall be one-(1) compartment installed at the center rear of the apparatus. The compartment shall have an interior dimension of approximately 46" wide x 28" high.</b>	1	FE
56-D8-0220		<b>Compartment Doors - Hinged, Flush Look</b> <b>The hinged door will be located on compartment B1.</b>	1	FE
56-D8-0620		<b>Compartment Door - Roll Up, Satin Finish</b> <b>There will be a ROM satin finish roll up door located on compartment L1, compartment L2, compartment L3, compartment R1, compartment R2 and compartment R3.</b>	6	FE
56-D8-1420		<b>Pull Down Strap - Compartment Door</b> <b>There will be a door pull down strap located on compartment L1, compartment L2, compartment L3, compartment R1, compartment R2 and compartment R3.</b>	6	FE
58-A0-0420		<b>Rear Body Construction - Flat Back Design</b>	1	FE
60-A2-4820		Vertical Load Test - Body	1	FE
62-A2-4820		<b>Compartment - Pike Pole/Ladder Storage, Right Side Beside Tank</b>	1	FE
62-B2-1220		<b>Tubes (2) - Pike Pole Storage</b> <b>The tubes will be located in the ladder compartment.</b>	1	FE
62-D2-0220		Trays (2) - Suction Hose, Each Side Above Compartments	1	FE
64-B2-0420		<b>Compartment - Wheel Well Double Air Bottle SIG4)</b> <b>There will be a compartment located on the driver's side front, driver's side rear officer's side front and officer's side rear body wheel well panels.</b>	4	FE
66-A2-0220		Body Trim Package	1	FE
66-A2-0620		Body Trim - Vertical Handrails (2), Knurled Aluminum	1	FE
66-A2-1420		<b>Body Trim - NO Rear Stanchions</b>	1	FE
66-A2-2420		Fuel Fill - Recessed w/Door, Left Side	1	FE
66-A2-4420		Mud Flaps - Rear	1	FE
66-A2-4620		Rub Rail - Extruded Aluminum	1	FE
66-A4-1040		<b>Step - 12" Rear, Aluminum Tread Plate</b>	1	FE
66-A4-4020		<b>Step - Intermediate Rear, Aluminum Tread Plate</b>	1	FE
66-A4-4420		<b>Step - Chrome Folding, Front of Body</b> <b>There will be three-(3) steps located on each side of the apparatus on the front compartment faces.</b>	6	FE
66-A4-6620		<b>Step - LED Lighted, Rear</b>	2	FE
66-A4-8820		Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2220		Handrail - Below Hose Bed, Knurled Stainless Steel	1	FE
66-A6-6420		Handrail - Front of Body, 12" Knurled Stainless Steel	2	FE

PART NO	S	DESCRIPTION	QTY	ID
66-A8-1620		Divider - Hose Bed, Pumper	1	FE
<del>66-A8-2420</del>		<del>Hand Hole in Hose Bed Divider</del>	<del>1</del>	<del>FE</del>
66-A8-4220		Cover - Hose Bed, Hypalon	1	FE
66-A8-6420		End Flap - Hypalon w/Snaps, Hose Bed	1	FE
66-A8-8020		Cover/End Flap Color: Red	1	FE
66-A8-8820		Hose Bed Capacity	1	FE
		<b>The hose bed shall have the capacity to hold the following:</b>		
		<b>No hose bed capacity was specified at the time of proposal completion. The overall height may increase due to the required hose load specified by the Fire Department.</b>		
		<b>A safety sign FAMA22, which warns of the need to secure hose, shall be visible to personnel at the hose storage area.</b>		
		<b>== Body Components - Pumpers - 1022.001 10/01/22 ==</b>		<b>FE</b>
		<b>== Elec. Components - Pumper Custom - 1022.001 10/01/22 ==</b>		<b>FE</b>
		<b>***** ELECTRICAL / COMPONENTS / ACCESSORIES ****</b>		<b>FE</b>
70-A2-2020		Electrical System - Apparatus Body, E2020	1	FE
70-A2-4020		Electrical System - 12 Volt Testing	1	FE
70-A2-6020		12-Volt Wiring Protection - Split Loom	1	FE
70-A2-8020		EMI/RFI Protection	1	FE
		<b>AUDIBLE WARNING DEVICES</b>		<b>FE</b>
		<b>INTERIOR COMPARTMENT LIGHTING</b>		<b>FE</b>
70-E2-2220		Light - Compartment, LED Strip	7	FE
70-H2-0220		Switch - Compartment Door Ajar Indicator	1	FE
72-G2-1020		<b>Zone A Upper Light Bar - 73" LED, Federal Navigator NVG73-NFPA1</b>	<b>1</b>	<b>FE</b>
72-M4-4820		<b>Zone B/D Upper Body Side Front (2) - Red LED, Federal QuadraFlare QL97XF-R</b>	<b>1</b>	<b>FE</b>
		<b>There will be one-(1) light installed on each side of the apparatus on the upper front corners of the body.</b>		
72-P4-4820		<b>Zone B/D Upper Body Side Rear (2) - Red LED, Federal QuadraFlare QL97XF-R</b>	<b>1</b>	<b>FE</b>
		<b>There will be one-(1) light installed on each side of the apparatus on the upper rear corners of the body.</b>		
72-S4-4420	S	<b>Zone C Upper Outboard Lights (2) - Red LED, Federal QuadraFlare QL64XF-R</b>	<b>1</b>	<b>FE</b>
		<b>There will be one-(1) light installed on each side of the apparatus on the upper rear of the unit.</b>		
74-D2-4820		<b>Zone B &amp; D Lower Front (2) - Red LED, Federal QuadraFlare QL64XF-R</b>	<b>1</b>	<b>FE</b>
		<b>There will be one-(1) light located on each side of the apparatus on the front bumper ends.</b>		

PART NO	S	DESCRIPTION	QTY	ID
74-E4-4820		<i>Zone B &amp; D Lower Midship (2) - Red LED, Federal QuadraFlare QL64XF-R</i> <b>There will be two-(2) lights located on each side of the apparatus in the body wheel well area.</b>	1	FE
74-G4-4820		<i>Zone B &amp; D Lower Rear (2) - Red LED, Federal QuadraFlare QL64XF-R</i> <b>There will be two-(2) lights located on each side of the apparatus on the rear tailboard ends.</b>	1	FE
74-H4-4820		<i>Zone C Lower Lights (2) - Red LED, Federal QuadraFlare QL64XF-R</i> <b>There will be one-(1) light located on each side of the apparatus in the rear tail light housings.</b>	1	FE
74-J2-4020		<i>Stop/Turn/Reverse Lights - LED, Federal QL64 Series</i>	1	FE
74-J2-6220		<i>Housing - Rear Tail Light Assembly, Federal QL64Z4H</i>	1	FE
74-J8-4820		<i>Light - LED Rear Directional, Federal Latitude SL6S-A</i>	1	FE
74-J9-0420		<i>Rear Directional Light Mounting - Recessed Mounted</i>	1	FE
74-J9-6020		<i>Control Head Location - Traffic Light, Centered Top of Dash</i>	1	FE
		<b>12-VOLT APPARATUS LIGHTING / ACCESSORIES</b>		FE
74-L0-2220		Lights - LED Clearance and Maker	1	FE
74-L2-4020		Light - LED License	1	FE
74-P2-8220		<i>Lights (2) - 12 Volt LED Scene, FRC Spectra MAX SPA260-Q20</i> <b>There will be two-(2) lights installed on each side of the apparatus on the upper front and rear corners of the body.</b>	2	FE
74-P2-8620		<i>Lights (2) - 12 Volt LED Scene, FRC Spectra 900 SPA900-Q70</i> <b>There will be one-(1) light located on each side of the apparatus directly behind the cab front doors in the raised roof section.</b>  <b>There will be one-(1) light installed on each side of the apparatus on the upper rear of the unit below the warning lights.</b>	2	FE
74-Q8-0820		<i>Light - 12 Volt LED Brow, FRC Spectra Max-S SPA800-A28</i> <b>The light will be centered across the front of the cab.</b>	1	FE
		<b>== Paint - Extruded Bodies - 1022.001 10/01/22 ==</b>		FE
80-C2-0220		Paint - Body/Cab	1	FE
80-C2-0420		Paint Color/Code: Red FLNA 31979 (FFA Red 1)	1	FE
80-D2-0620		<i>Paint - Interior Compartment, "F-Shield" Extruded Bodies</i>	1	FE
80-E2-2020	S	<i>NFPA Striping - Customer / Dealer Supplied</i>	1	FE
80-E8-0220		Striping - Rear Body, Reflective Chevron	1	FE
80-E8-0620		Chevron Striping Colors: 3M Red & Lime Green	1	FE
80-E8-4020		Reflective Material - Designated Walking Surfaces	1	FE
80-G2-0820	S	<i>Lettering Package - Customer / Dealer Supplied</i>	1	FE
		<b>== Warranty / Manuals - Pumpers Custom - 1022.001 10/01/22 ==</b>		FE
98-A2-0420		Warranty - Body Material & Workmanship, 2-Year / 36,000 Miles (RFW0002)	1	FE

PART NO	S	DESCRIPTION	QTY	ID
98-A2-1020		Warranty - Chassis Material & Workmanship, 2-Year / 36,000 Miles (RFW0102)	1	FE
98-A4-0210		Warranty - Cab Structural, 10-Year / 100,000 Miles (Aluminum - RFW0602)	1	FE
98-A4-0420		Warranty - Body Structure, 10-Year / 100,000 Miles (Aluminum - RFW0502)	1	FE
98-A6-0210		Warranty - Cab Paint / Perforation, 10 Year (RFW0710)	1	FE
98-A6-0220		Warranty - Body Paint / Perforation, 10 Year (RFW0710)	1	FE
98-A8-0220		Warranty - Frame Assembly Structure, 50-Year / 250,000 Mile	1	FE
98-A8-0420		Warranty - Meritor Axle, 5-Year / Unlimited Miles	1	FE
98-A8-4220		Warranty - Cummins Engine, 5-Year/100,000 Miles	1	FE
98-A8-4420		Warranty - Allison Automatic Transmission, 5-Year/Unlimited Miles	1	FE
98-A8-4620		Warranty - Anti Lock Brake System, 3-Year/300,000 Miles	1	FE
<b>98-A8-6220</b>		<b>Warranty - Waterous Pumps</b>	<b>1</b>	<b>FE</b>
98-A8-8020		Warranty - Plumbing System, 10-Year / 100,000 Miles (RFW0801)	1	FE
98-A8-8420		Warranty - Poly Water Tank, Lifetime	1	FE
98-B2-0220		Manuals (2) - Chassis Operation, Digital	1	FE
98-B2-1220		Manuals (2) - Engine/Transmission Operations	1	FE
98-B2-1820		Manuals - Apparatus Body & Components	1	FE
98-B2-2020		Manuals - Pump	1	FE
98-B2-2220		Safety Guide - FAMA	1	FE
98-B2-6020		Wiring Diagrams - Cab/Chassis, Standard	1	FE
98-B2-6620		Wiring Diagrams - Apparatus Body, Standard	1	FE
		<b>== Loose Equipment Pkg. - Pumper - 1022.001 10/01/22 ==</b>		<b>FE</b>
90-A2-0220		Equipment Package - NFPA 1901 2016, Fire Department Supplied The loose equipment as outlined in NFPA 1901, 2016 edition, section 5.9 thru 5.9.4 shall be provided by the fire department unless it is listed in this proposal. All loose equipment shall be installed on the apparatus before placed in emergency service, unless the Fire Department authorized agent signs the State of Exception as listed in the NFPA 1901 Standard for Automotive Fire Apparatus sections 4.21 thru 4.21.2.	1	FE
90-C2-0420		Ladder - 10' Folding Attic, Alco-Lite FL-10	1	FE
90-C6-0420		Ladder - 14' Roof, Alco-Lite PRL-14	1	FE
90-D6-1020		Ladder - 24' 2-Section Extension, Alco-Lite PEL-24	1	FE
90-H8-0420		Hose (2) - PVC Flexible Suction, Kocheck 10' x 6"	1	FE
90-K2-1220		Strainer - 6" NH Barrel, Kocheck BS60C	1	FE