



Shop Order

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<b>Sales Rep:</b> Ryan Stacey, CET Metalfab Ltd.	<b>Terms:</b> Chassis Net 10 days Body and equipment COD
<b>Drawing #:</b> FT-11611-C <b>Est. Delivery Date:</b> 06/28/24 <b>Customer PO #:</b> <b>Customer #:</b> <b>QPF #:</b>	<b>Penalty:</b> None

**Exp. Date:** 12/29/2019  
**Quote No:** RPONS-0020  
**Job/Order No:** 22952  
**BODY:** 00-10-15 Metalfab Pumper - ULC 05/13

08/22/2024

PART NO	QTY	DESCRIPTION
<b>== Metalfab Pumper - ULC 05/13 - 0.000 ==</b>		
<b>Change Order G</b>		
00-05-0010	1	Dealer - Metalfab
00-10-1500	1	Metalfab Pumper
00-20-1000	1	Company Profile
00-20-1500	1	Standard Body Warranty
00-20-1550	1	Metalfab Limited Ten (10) Year Paint and Corrosion Warranty
<b>00-20-1700</b>	<b>1</b>	<b>Hale Pump Warranty - 5 years</b>
00-20-1800	1	Polypropylene Tank Lifetime Warranty
00-20-2000	1	Plant Visits - unlimited at customer expense
00-20-3500	1	Certification for Fusion Welding of Steel and Aluminum
<b>00-20-4000</b>	<b>1</b>	<b>Quality System registered to ISO 9001:2015</b>
00-20-4500	1	Fire Apparatus Manufacturers' Association Membership
<b>GENERAL INFORMATION</b>		
10-11-0000	1	Intent
10-11-0105	1	Vehicle Data Recorder not requested
10-11-1100	1	ULC S515-13 Compliance
10-11-1500	1	ULC Testing - Pumper - Imperial units of measure
<b>10-11-15AA</b>	<b>1</b>	<b>ULC warning labels bilingual English/French</b>
<b>10-11-2100</b>	<b>1</b>	<b>Maximum length - 363"</b>
<b>10-11-2200</b>	<b>1</b>	<b>Maximum height - 124"</b>
<b>10-11-2400</b>	<b>1</b>	<b>Overall length is 30' or more</b>
10-11-2500	1	General Construction
10-11-3000	1	Manuals - two copies
***Two copies of chassis manuals are required.		

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
<b>10-11-3600</b>	<b>1</b>	<b>Delivery - FOB Fire Department</b>
10-11-4000	1	Payment Terms - Chassis Net 10 days, Balance COD
<b>10-20-1400</b>	<b>1</b>	<b>Hose capacity exceeding ULC/NFPA requirements</b> Rear Hose beds moving left to right. 4-inch hose lay three lays wide - 1000' total 1 ½ in preconnected with 200 ft. of 1 ¾ in hose next to walkway. 1 ½ in preconnected with 200 ft. of 1 ¾ in hose next to walkway. 2 ½ in hose lay bed with 2 wide lay in center position to hold 400 feet. 2 ½ in preconnected in with 200 ft. of 2 ½ in hose and hooked to blitz fire monitor mounted below on the rear of the apparatus. Additional weight allowance = 800 pounds Hose load above to be able to be deployed without any interference from hose bed covers.
<b>10-20-2000</b>	<b>1</b>	<b>Equipment carrying capacity - standard ULC Pumper - 2000 lbs</b>
		<b>CHASSIS INFORMATION</b>
<b>20-11-1000</b>	<b>1</b>	<b>Chassis supplied by Metalfab - Freightliner M2 112</b> Freightliner M2 112 PLUS - 2024 model year 45,600 lb GVWR 14,600 lb front axle 31,000 lb rear axle To be 212" wheelbase DD13 450 hp @ 1625 rpm 1900 governed rpm 1650 lb/ft torque @ 975 rpm *Note* - disable stationary cruise - High Idle will be controlled through 30-51-6800 FRC InControl Governor Jacobs compression brake, Dealer to program to activate stop lamps if possible 4000 EVS automatic transmission, PTO opening LH side and top RH - 6 speed transmission 68 MPH top road speed 275 Amp alternator Batteries located under cab 189 litre fuel tank, LH Power windows, manual door locks No back window A/C Air horn controls are lanyards ESC Aluminum wheels Engine compartment light Additional air tank Cab steps changed to polished aluminum 664-002 - the 664-004 polished stainless steps are not available with the M2-112 Paint code to match L0308EB Red, spray out required for customer approval Seat cover material is black cordura plus cloth Mirrors are heated with LED lights and LH and RS remote No lockup required with PTO driven pump Metalfab will install a switch on the chassis dash to control high idle through the Pump Governor with the appropriate interlocks
20-11-1500	1	2013 Emission chassis modifications
<b>20-11-1700</b>	<b>1</b>	<b>Chassis Motor Vehicle Inspection required prior to delivery</b> There will be a New Brunswick chassis MVI done a few weeks prior to delivery
20-21-0500	1	Fluid capacity plate

PART NO	QTY	DESCRIPTION
20-21-0600	1	Pumping test plate
20-21-1000	1	Maximum riders sign - 2 persons
20-21-1500	1	Seat belt warning labels - 2 door chassis
20-21-1560	1	LED Tire Pressure Indicators - Single Axle
20-21-1600	1	Apparatus Information Label
		<b>An information label is provided in the chassis cab, visible to the driver, stating:</b>
		<b>"When manufactured, this vehicle was:</b>
		<b>** m high</b>
		<b>** m long</b>
		<b>** kg GVW</b>
		<b>Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"</b>
20-21-2000	1	Non removable key
20-21-2500	1	Shifter lock not required
20-21-3500	1	Rear step warning label
<b>20-21-3810</b>	<b>1</b>	<b>Front mudflaps provided with chassis</b>
20-21-4000	1	Rear mudflaps - Metalfab Logo
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only
<b>20-31-0500</b>	<b>1</b>	<b>Alum tread fuel tank trim, Conv - 2 door</b> Vertical trim only, OEM cab steps remain
<b>20-31-1900</b>	<b>1</b>	<b>Chassis cab not painted</b> Single red to match last unit L0308EB Red
<b>20-31-7500</b>	<b>1</b>	<b>Console in cab</b> Install siren (50-11-1400), pump and roll indicator lights (30-51-0400), TACTL5 Traffic Advisor (50-11-6615), PTO engagement (30-51-1500) in console, PTO hourmeter (70-21-2100), On Spot chain switch (20-41-5500), and radio provisions (50-35-0500) TMR in Center and VHF on side towards officer. Storage area with hinged cover and lift and turn latch provided at rear of console - includes a divider to hold a binder. Shelf on the back side to hold a VHF and two (2) TMR portable. Gray Zolatone finish  To Match WBRFD 21833
<b>20-41-0600</b>	<b>1</b>	<b>Intake air shutoff for engine not requested</b>
<b>20-41-0900</b>	<b>1</b>	<b>Auxiliary braking system disabled when pumping</b>
<b>20-41-1140</b>	<b>1</b>	<b>Transmission Programming - Allison WT</b>
20-41-1500	1	Extend exhaust pipe - RS front of rear wheels Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.
<b>20-41-1900</b>	<b>1</b>	<b>Battery boost terminals with chassis</b>
<b>20-41-2200</b>	<b>1</b>	<b>Chassis batteries relocated to body compartment</b> Move to top of pump house in 70-11-5110 storage area, include a cover
20-41-2510	1	Fuel fill at step fuel tank under cab
20-41-2600	1	Chassis fuel tank remains in OEM location
20-41-5000	1	Rear Tow Hooks - under body *** Flat bar tow hooks under rear step (2)

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
<b>20-41-52AA</b>	<b>2</b>	<b>Side receiver in fender well - 3000 pound capacity</b> Located in rear fender well towards rear of unit as high as possible above rub rail, access locking pin from inside rear compartment A label will be provided at each receiver stating the maximum straight line pull rating that the receiver can support per ULC S515-13 14.11
<b>20-41-5500</b>	<b>1</b>	<b>ON SPOT Automatic traction chains</b> Locate switch on cab console, switch to include a guard to preven accidental operation
<b>20-51-0710</b>	<b>1</b>	<b>Master Battery Disconnect included with Freightliner chassis</b>
<b>20-51-2500</b>	<b>1</b>	<b>Back up alarm included with chassis</b>
<b>20-51-3400</b>	<b>1</b>	Protection valve installed for air operated accessories
<b>20-51-4000</b>	<b>1</b>	<b>Auto eject for air inlet - LS</b>
<b>20-51-6200</b>	<b>8</b>	<b>120 volt 20 A shore line connection in chassis cab and body compartments</b> Standard 5-20R duplex receptacle in chassis cab, not fused Two in cab - 1 for battery conditioner and 1 for TMR & VHF portable radio charger 1 in each side compartment (6 total) To be 12" minimum from chassis floor to meet ULC
<b>20-51-6500</b>	<b>1</b>	<b>Kussmaul Autocharge 1000 battery conditioner w/battery saver</b> Located back side of console/floor area.
<b>20-51-7101</b>	<b>1</b>	<b>Electric System Management - VMUX</b>
<b>20-51-7500</b>	<b>1</b>	<b>Super Auto eject for 120 v - 20 A with sealed enclosure</b>
<b>20-51-8510</b>	<b>1</b>	<b>Engine compartment lights LED - with chassis</b> One required to light up complete engine compartment and will be supplied with chassis
<b>20-51-9001</b>	<b>1</b>	<b>Air horns and controls as supplied by chassis OEM</b> There will be lanyards to activate the air horns, included with the chassis
<b>20-52-0010</b>	<b>1</b>	<b>Air horn control/actuation on pump operators panel</b> There will be an air horn button mounted on the pump panel as requested at the pre-construction meeting of 01.07.2021
<b>20-52-3500</b>	<b>1</b>	<b>Chassis steering wheel lined up by Metalfab</b>
<b>20-52-4001</b>	<b>1</b>	<b>Rear View Camera system 7"</b> Rearview Systems STM7000 with 7" colour monitor in cab rigidly mounted on top of center dash area.  Same Locations as WBRFD 21833
<b>20-60-0400</b>	<b>1</b>	Chassis wheelbase does not change
<b>PUMP AND PLUMBING</b>		
<b>30-11-3011</b>	<b>1</b>	<b>Hale PTO driven pump</b>
<b>30-11-3013</b>	<b>1</b>	<b>Hale RSD 1250 IGPM PTO Pump</b>
<b>30-15-0304</b>	<b>1</b>	<b>Plumbing - non manifold pump SM SS</b>
<b>30-20-0500</b>	<b>1</b>	Valves and controls - side mount panel
<b>30-20-1002</b>	<b>1</b>	<b>Akron valves specified</b>
<b>30-20-1620</b>	<b>1</b>	<b>Piping stainless steel - non manifold Pumper</b>
<b>30-20-1700</b>	<b>1</b>	<b>1-1/2" thread specifications NPSH</b>

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
<b>30-20-1800</b>	<b>1</b>	<b>2-1/2" thread specifications NSZ1 3.23 x 5</b> Department to supply male and female sample thread for testing purposes.
30-20-2000	1	Piping hydrostatic test
<b>30-20-2510</b>	<b>1</b>	<b>Anodes in suction and discharge piping - non manifold pump</b> Install one anode on discharge side of pump, one anode on suction side of pump - do not use teflon tape or thread sealant. Paint flange silver and mask brass anode before painting for visibility.
<b>30-21-9510</b>	<b>1</b>	<b>Tank to Pump 4" Ball valve SS, handwheel control with check valve manifold pump</b>
<b>30-22-0520</b>	<b>1</b>	<b>Tank Fill valve 2" SS</b>
<b>30-31-4020</b>	<b>1</b>	<b>Suction - 6" gated each side SS non manifold pump 6" header</b>
<b>30-31-7100</b>	<b>2</b>	<b>Hale master intake suction valve - handwheel control</b> LS and RS suctions Use 4" long Hale suction tubes for 1-1/4" stick out from panel - 80-11-6010 elbow has to be able to be mounted on LS with door closed. Locate the placard with the warning lights for the valve above the handwheel so that the lights are visible. Note that both handwheels are to be located on the LS pump panel
<b>30-32-7550</b>	<b>1</b>	<b>Suction - 2-1/2" left side SS, bleeder, non manifold pump</b>
<b>30-32-8050</b>	<b>1</b>	<b>Suction - 2-1/2" right side SS, bleeder, non manifold pump</b>
<b>30-40-2026</b>	<b>1</b>	<b>4" right discharge, plumbed 3", non manifold pump</b>
<b>30-41-2040</b>	<b>1</b>	<b>2-1/2" RS discharge SS, bleeder, non manifold pump</b> 2.5" end cap not required with 80-99-20AA adapter
<b>30-41-2540</b>	<b>1</b>	<b>2-1/2" LS discharge SS, bleeder, non manifold pump</b> 2.5" end cap not required with 80-99-20AA
<b>30-42-8520</b>	<b>2</b>	<b>1-1/2" rear discharge SS, plumbed 2"</b> Next is a 1 3/4 inch 2 wide hose lay preconnected with 200 feet. The Walkway will follow. The next hose lay will be a 1 3/4 inch 2 wide hose lay preconnected with 200 feet Both 1-3/4" discharges to be through the front partition, connected to hose at front of hose bed.
<b>30-43-1520</b>	<b>2</b>	<b>2-1/2" rear discharge SS, plumbed 2-1/2", bleeder</b> *** Right Side 2.5" end cap not required with 80-99-20AA adapter Provide one 2 1/2 inch preconnected hose lay on in the center hose lay on the right side, and have one rear 2 1/2 rear discharge of the right rear with a 1 1/2 inch reduced and cap. The preconnected 2-1/2" discharge is to be through the front partition, connected to hose at front of hose bed.
<b>30-44-6520</b>	<b>1</b>	<b>Piping for monitor SS, plumbed 3", bleeder</b> For 80-16-10AA Akron 3426 deck gun. Maximum height when stowed is 124"
<b>30-51-0400</b>	<b>1</b>	<b>Pump shift - PTO Pump and Roll</b> ***Includes "Pump Engaged" indicator lights on chassis instrument panel and on the pump panel

PART NO	QTY	DESCRIPTION
		***Includes "Throttle Ready" indicator light on Pump operating panel
		Includes indicator light showing "OK TO PUMP" when transmission is in neutral, park brake is set, and PTO control energized. The remote electronic throttle will be energized in this mode.
		Includes indicator light showing "OK TO PUMP AND ROLL" when the transmission is not in neutral, the park brake is not set, and the PTO control is energized. The remote electronic throttle will not be energized in this mode.
<b>30-51-1500</b>	<b>1</b>	<b>Power shift PTO - Automatic transmission</b> Left side PTO opening for RSD-J gearbox
<b>30-51-1501</b>	<b>1</b>	<b>PTO driveshaft</b>
<b>30-51-6800</b>	<b>1</b>	<b>FRC InControl Governor/Throttle engine display with throttle knob</b> Provide a high idle switch on the chassis dash to provide stationary high idle with the appropriate interlocks to meet ULC
<b>30-51-7005</b>	<b>2</b>	<b>Suction Side Relief V/V. non manifold pump</b> One for the left MIV and one for the Right MIV
<b>30-51-7716</b>	<b>1</b>	<b>Trident Automatic Air Primer 3 barrel 3 location</b> Location #1 - Main pump Location #2 - Left side MIV pre prime Location #3 - Right side MIV pre prime
<b>30-51-7720</b>	<b>1</b>	<b>Additional air tank for air primer system with chassis</b> An additional air tank is provided to improve air primer capacity
<b>30-51-8000</b>	<b>1</b>	<b>Heat exchanger</b>
<b>30-51-9000</b>	<b>1</b>	<b>Thermal Relief Valve</b> Discharge plumbed to below frame level to atmosphere.
30-52-1000	1	Master drain V/V, 12 port
30-52-3001	1	Foam system not requested
<b>WATER AND FOAM TANKS</b>		
40-11-2100	1	Polypropylene water tank (Imperial gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)
<b>40-11-6000</b>	<b>1</b>	<b>Tank capacity 1400 Imperial Gallons</b>
<b>40-21-1000</b>	<b>1</b>	<b>4" tank to pump connection</b>
<b>40-22-0500</b>	<b>1</b>	<b>2" tank fill connection</b>
<b>40-23-0500</b>	<b>1</b>	<b>3/4" water level gauge connection</b>
<b>40-23-1050</b>	<b>1</b>	<b>4" Fireman's Friend connection - offset to right</b>
<b>40-23-1060</b>	<b>1</b>	<b>10" Newton dump connection - offset to left</b>
<b>40-30-0500</b>	<b>1</b>	<b>Sump drain valve (3" gate valve) with linkage</b>
40-30-1000	1	Water Fill Box front left corner
<b>40-31-3500</b>	<b>1</b>	<b>10" rear Newton dump, stainless steel</b> Offset left of center in back compartment Includes manual override and instruction plate.
<b>40-31-3600</b>	<b>1</b>	<b>Newton dump - stainless steel 36" telechute</b>
<b>40-31-4710</b>	<b>1</b>	<b>Newton dump, top mount manual operation, SS</b> Lock open device is required
<b>40-31-5500</b>	<b>1</b>	<b>Electric operator for Newton dump, top mount</b> Switch located on back of body over the left side tail light module.

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
<b>40-31-9000</b>	<b>1</b>	<b>4" Storz rear fill, Fireman's Friend, bleeder</b> Offset right of center in back compartment - leave ample room between Storz connection and wall of compartment for the use of hose wrenches when connecting and disconnecting LDH. End of fitting to be as close to the inside of the rollup door to make for an easier connection
		<b>ELECTRICAL</b>
<b>50-11-0300</b>	<b>1</b>	<b>Base electrical system - multiplex</b> Panel to be installed in the right side front compartment to make for easier access - standard location in the L1 compartment has slide out tray with rolled hose storage in front
50-11-0600	1	Warning Light Certification
50-11-0700	1	Low Voltage Electrical system test
50-11-0800	1	Low Voltage Electrical System Documents As required by ULC and NFPA standards
<b>50-11-0900</b>	<b>1</b>	<b>Rocker switch panel with master warning switch at chassis ceiling</b> ***Rocker switch assignments on chassis ceiling: MASTER -LIGHT BAR RED -LIGHT BAR WHITE -REAR BEACONS -FLASHING WARNING -REAR FLOODS -LS SCENE -REAR SCENE -RS SCENE -DITCH LIGHTS Q2B SIREN BRAKE (momentary)  Include a high idle switch on the chassis dash, required with DD13 engine.
50-11-1400	1	Federal PA300 100 watt siren
<b>50-11-1620</b>	<b>1</b>	<b>Siren speaker, 100 watt, in front bumper - Federal AS124</b> Standard Metalfab protective grill to be supplied and installed
<b>50-11-2010</b>	<b>1</b>	<b>Federal Q2B mechanical siren - through RS front bumper wing at an angle</b> ***Controlled by foot switch at both driver and officer positions. Interlock with E-MASTER so not active unless emergency lights are operating Install a disconnect switch on the front of the console to isolate if there is an electrical issue
<b>50-11-2600</b>	<b>1</b>	<b>Siren to be accessible to driver and officer</b>
<b>50-11-5812</b>	<b>1</b>	<b>Federal LPX53DS-NFPA</b> SOPT 798 White light pods will be used as flashers, controlled by switch 50-11-0900 and interlocked with park brake
<b>50-11-6615</b>	<b>1</b>	<b>Rear LED Traffic Advisor warning lights - TAM83 - recess mount - 30.45" long</b> Includes a TACTL5 control TIR3 super LED lights - 30.45" long

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
50-11-9010	1	<b>Rear beacons - Federal NVG10 LED (pr) - both red</b> Note height restriction of 124"
50-12-5028	1	<b>Front LED flashers (pr)-red Federal QL43</b>
50-12-5218	1	<b>Front side inter lts (pr)-red LED Federal QL43</b>
50-12-5318	1	<b>Body side inter lts (pr)-red LED Federal QL43</b>
50-12-8000	1	<b>Additional body side intersection light not required</b> Distance between front and rear side intersection light does not exceed 25'
50-21-1505	1	<b>Unity LED rear floods (pr)</b> Switched in cab and on light head and when transmission is placed in reverse gear. These lights are not managed to shed SOPT 255a
50-21-1610	1	<b>Parking ditch lights in rear fenders - LED w/ SS housing (pr)</b> Switched in cab and when transmission is placed in reverse gear. These lights can be managed to shed SOPT 160A
50-21-2547	2	<b>FRC telescoping SPECTRA LED 12V flood (ea)</b> Switched at the pump panel Located on the front of pump house, one each side These lights can be managed to shed and will be wired to the Equipment not Stored light (50-21-5550)
50-21-5100	1	<b>Compartment lighting - LED tube lights in each compartment (rollup doors)</b> Compartments over rear wheels to have a 4" round recessed LED light
50-21-5500	1	<b>Door Ajar warning light</b> Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on" Over driver seating position Note that Zico Access Ladder (60-31-5000) will also operate this light when the ladder is deployed and the park brake is released
50-21-5550	2	<b>Equipment rack not stowed warning light</b> Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on" Over driver seating position One (1) for Zico Porta Tank rack (60-41-6001) and LS Extenda light (50-21-2547) One (1) for Zico Ladder rack (60-41-9001) and RS Extenda light (50-21-2547)
50-21-8001	1	<b>Step lights for body steps - 4" LED</b> Switched when park brake is set.
50-21-8200	1	<b>LED Lumabar for chassis steps - 2-door chassis</b> Switched when park brake is set. SOPT 194a
50-21-83AA	1	<b>LED Lumabar for access ladder and rear step surfaces</b> Switched when park brake is set. SOPT 307b

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
50-21-8600	1	LED clearance lts and reflectors
50-21-8800	1	<b>LED intermediate turn signal/clearance/reflector length &gt;30'</b>
50-22-0800	1	<b>Federal 4 QuadraFlare LED tail/brake-turn-backup-warning module (pr)</b> Brake, turn, backup, warning module will be mounted on the extinguisher boxes (60-40-8500) so additional TecNiq warning lights will not be required.
50-31-6010	2	<b>Scene light boxes (pr) - painted job color</b> Note any special requirements
50-31-6058	1	<b>Scene lights (pr) - Whelen M9 LED - right side upper</b> Switched in cab rocker switch panel These lights can be shed if necessary
50-31-6059	1	<b>Scene lights (pr) - Whelen M9 LED - left side upper</b> Switched in cab rocker switch panel These lights can be shed if necessary
50-31-6060	1	<b>Scene lights (pr) - Whelen M9 LED - rear facing upper</b> Switched in cab rocker switch panel and when the vehicle is placed in reverse These lights can be shed if necessary
50-31-6550	1	<b>Ground lighting (LED Lumabar) - 2 door chassis</b> Switched when park brake is set.
50-31-6570	1	<b>Ground lighting (LED Lumabar) - side mount body</b> Switched when park brake is set.
50-35-0500	2	<b>Installation of customer supplied mobile radio</b> Frequencies for VHF radio are: RX freq - 151.925, TX freq 154.100 and TX-PL/DPL - 94.8 as per photo in Basecamp job folder under "Other Information" TMR Radio to be mounted in centre VHF Radio to be mounted towards officer Radios received at Metalfab August 2024: Motorola CM300 VHF Motorola XTL1500 TMR
50-35-0560	1	<b>VHF antenna with base - commercial chassis</b> No special mounting or spacing requirements. To be installed behind the light bar spaced out from the other antenna.
50-35-0590	1	<b>Cellular/TMR antenna with base - commercial chassis</b> No special mounting or spacing requirements. To be installed behind the light bar spaced out from the other antenna.
50-35-0605	2	<b>Magnetic Mic Mount</b> Locate on front corners of console same as West Bay Road M21-21833 Photo in Basecamp job folder in "Other Information"
50-99-10AA	1	<b>Hose bed lights - LED Lumabars</b> Switched when park brake is set. Mounted on underside of hose bed covers

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
<b>50-99-20AA</b>	<b>1</b>	<b>Lighting for open storage above pumphouse</b> LED Lumabar, switched when park brake is set
<b>50-99-25AA</b>	<b>1</b>	<b>LED lighting for walkway in center of hose bed</b> 3 x 20" Lumabars Switched when park brake is set.
<b>BODY</b>		
60-10-1400	1	Single axle extruded aluminum body
<b>60-10-15AA</b>	<b>1</b>	<b>1" drop on lower edge of compartment floor - sweep out type</b> <b>SOPT1236</b>
60-10-4100	1	No "beavertail" rear step supports
60-10-4600	1	Painted fender surround
60-10-4700	1	Integral aluminum fender trim
60-10-5400	1	Diamondback pumphouse steps
60-10-5430	1	Diamondback 19" rear step
<b>60-10-5452</b>	<b>1</b>	<b>Recessed platform step in hose bed</b> Stepping surface in diamondback material - step will be 12" deep SOPT in file
60-10-6000	1	Extruded rub rail
<b>60-11-0200</b>	<b>1</b>	<b>Front left side compartments intermediate height</b>
<b>60-11-0600</b>	<b>1</b>	<b>Front right side compartments intermediate height</b>
<b>60-11-0900</b>	<b>1</b>	<b>Rear left side compartments intermediate height</b>
<b>60-11-1300</b>	<b>1</b>	<b>Rear right side compartments intermediate height</b>
<b>60-11-1900</b>	<b>2</b>	<b>Low side compartment (up to 18") each</b> Flip up doors
<b>60-11-3200</b>	<b>1</b>	<b>Full Height Rear compartment</b> Rear Compartment - must be 30" deep to fit both customer floating suction and second low level strainer on top of each other right below the chute. This shelf is only to be wide enough to allow room for the strainers. The side of the compartment below the fill piping will remain full height to mount customer 6" hydrant valve and customer hydrant bag. Dimensions (L" x W" x H") for customer supplied items: Floating strainer 26" x 16" x 10" Hydrant valve 16" x 7" x 12" Hydrant bag 12" diameter x 16" high Low Level Strainer 18-1/2" x 17" x 12"
<b>60-11-4535</b>	<b>2</b>	<b>Flush mount aluminum door - single with "D" handle</b> Doors to be flip up
<b>60-11-5510</b>	<b>4</b>	<b>Rollup door - intermediate height</b> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
<b>60-11-5520</b>	<b>1</b>	<b>Rollup door - full height</b> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
<b>60-11-5530</b>	<b>1</b>	<b>Rollup door - to enclose pump panel</b> Natural aluminum finish

PART NO	QTY	DESCRIPTION
		Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5660	1	<b>Amdor pull straps - Flex - HD (for door opening 49"-70")</b> Installed on the pump panel rollup door 60-11-5530
60-31-4100	1	<b>Extruded aluminum handrails</b> Minimum 2" clearance from handrail to any surface Handrails to be provided to just below the 50-21-1505 Unity floodlights - note that the LS handrail will be installed above the 60-31-50AA access ladder
60-31-50AA	1	<b>Folding access ladder at rear - custom</b> To match customer photo provided, scan in Basecamp Provide a switch wired to door ajar warning light to indicate when the ladder is deployed and the park brake released
60-31-5600	1	<b>Steps and grab handles at front of body next to pump panel</b> Maximum height between steps is 18" RS only due to roll up door on LS ***Two only required to access 70-11-4500 step***
60-31-6500	1	<b>Compartment matting-Interlocking Tile</b>
60-31-8006	1	<b>BA bottle compt (ea)-fender well</b> Right side fender well forward Restraint loop provided Cylinder diameter, length = 7" diameter x 24" high
60-31-82AA	2	<b>Adjustable vertical dividers on pull out tray</b> The pull out tray in the L1 compartment will be partitioned to hold the following: 4 rolls of 50' x 1.75" 2 rolls of 50' x 2.5" 1 roll of 25' x 2.5" 1 roll of 25' x 4" Eight (8) slots total - rest of space will be open storage.
60-31-8650	2	<b>Adjustable sliding tray (ea) - 500 pound capacity with lock-in, lock-out sliding</b> Reflective stripe is applied to the exposed edges for visibility when the compartment door is open and the tray deployed. Locate in L1 and R1 compartments, full depth
60-31-8800	4	<b>Sliding tray (ea) - 600 pound capacity - 70% extension</b> ***Hardware requires 3-1/2" of compartment height White reflective stripe is applied on the exposed edge for visibility when the compartment door is open Locations are at floor level in the following compartments: Left side front compartment L1 Left side rear compartment L3 Right side front compartment R1 Right side rear compartment R3
60-31-9600	5	<b>Adjustable shelf (ea)</b> Reflective stripe is applied on the exposed edge for visibility when the compartment door is open White reflective stripe is applied on the exposed edge for visibility when the

PART NO	QTY	DESCRIPTION
		compartment door is open
		1. L1 full depth
		2. L3 full depth
		3. Back - full depth (under dump line and above tow eyes)
		4. R1 shallow depth
		5. R3 shallow depth
60-32-3560	1	<b>Three adjustable, 2 fixed hose divider (each)</b> Hand hold required in end Rear Hose beds moving left to right. 4-inch hose lay three lays wide. 1 ½ in preconnected with 200 ft. of 1 ¾ in hose next to walkway. 1 ½ in preconnected with 200 ft. of 1 ¾ in hose next to walkway. 2 ½ in hose lay bed with 2 wide lay in center position to hold 400 feet. 2 ½ in preconnected in with 200 ft. of 2 ½ in hose and hooked to customer Blitz fire monitor mounted below on the rear of the apparatus with customer mount.
60-32-7500	1	<b>Hose bed - aluminum</b> Rear Hose beds moving left to right. 4-inch hose lay three lays wide. 1 ½ in preconnected with 200 ft. of 1 ¾ in hose next to walkway. 1 ½ in preconnected with 200 ft. of 1 ¾ in hose next to walkway. 2 ½ in hose lay bed with 2 wide lay in center position to hold 400 feet. 2 ½ in preconnected in with 200 ft. of 2 ½ in hose and hooked to customer Blitz fire monitor mounted below on the rear of the apparatus with customer mount.
60-33-0000	1	<b>Paint exterior - Imron Elite</b> *** Paint code and colour red to match cab
60-33-0200	1	<b>Undercoat vehicle with KROWN rust protection</b>
60-33-0600	1	<b>Chassis wheels not painted</b> Aluminum wheels from chassis OEM
60-33-1000	1	Paint pump and plumbing job colour
60-33-1500	1	Buffed finish compartment interior
60-33-2200	1	<b>Lettering - 80 letters up to 3" tall - 3 colour</b> lettering will include the Fire Logo and dept. name on doors truck number on front fender, Emergency 911 decals on Rear compartments and keep back 150 meters on rear. Digital file of the Fire Department Logo will be provided to Metalfab Layout drawing approved August 6-24
60-33-3000	1	<b>Reflective stripe - 4" white</b> 50% of perimeter each side and 25% of perimeter front. 3M Scotchlite material Layout drawing approved August 6-24
60-33-3310	1	<b>Reflective stripe - red and yellow chevron at rear</b> Minimum 50% of rear vertical surface. Printed 3M Scotchlite material
60-33-3580	1	<b>Non slip overlay on top walkway in hose bed - 18" wide</b> There will be an 18" wide non-slip surface (embossed aluminum treadplate) installed in the walkway to meet ULC.

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
60-33-4700	1	<i>No crosslay preconnects on vehicle</i>
60-33-5000	1	<i>Aluminum cover over hose bed with black end tarps - gas struts and hood latches</i>
60-40-5000	2	<i>6" Hose tray - top mount (ea)</i> Attached to the ladder rack and the portable tank rack to carry two of the 6" x 10" suction hoses 80-11-5000. Ladder rack suction hose storage will be a tray. Porta tank rack suction hose storage will be a tube with UMHW on top and bottom inside of tube - 18" at each end
60-40-5500	1	<i>Suction hose tube (each) with door</i> To be completely enclosed and carry 13' suction hoses (ref 80-11-5020) - right side only Door ajar switch required. UMHW on top and bottom of tube
60-40-8500	1	<i>Tail light box Fire Extinguisher tubes (pr)</i> There will be a pair of extinguisher boxes supplied and installed on the rear bumper for the customer supplied ABC and CO2 extinguishers. To be as shallow as possible to keep OAL as short as possible.
60-41-1015	2	<i>Pike Pole tube in suction hose tube, attic ladder tube</i> One tube in suction hose tube Two tubes in attic ladder tube These are 2" ID and the length of the storage tube.
60-41-1500	1	<i>Attic ladder tube with rear door</i> Right side, rear access, to include a door ajar switch (50-21-5500)
60-41-6001	1	<i>Zico hydraulic portable tank rack</i> Left side. To be wired so only operable when park brake is engaged and compartment door over rear wheels is closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. Will carry a 2000 Imperial Gallon Porta tank (80-15-1000) and a 6" suction hose tray (60-40-5000)
60-41-6010	1	<i>ZICO PTS switched on left side pump operators panel</i>
60-41-6110	1	<i>Painted plate on exterior of Zico PTS</i>
60-41-7100	1	<i>Tread plate on body behind porta tank rack</i>
60-41-9001	1	<i>Zico hydraulic Ladder Access system</i> Right side. To be wired so only operable when park brake is engaged and compartment door over rear wheels is closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. For storage of the 24' two section extension ladder 80-14-0500 and the 14' roof ladder 80-14-5500 and one (1) 6" suction hose and tray
60-41-9010	1	<i>ZICO LAS switched on the right side pump panel</i>
60-91-0700	2	<i>Wheel chock storage compartment in rear body fender (ea) - painted door</i> For 80-19-0500 wheel chocks Located in Left side fender well front and rear of rear wheels

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
<b>60-99-05AA</b>	<b>1</b>	<b>Compartment RS Fender Well for folded Traffic Signs</b> Dimensions for customer traffic signs = 5" diameter x 43" long Locate towards rear of RS rear fender Include door with lift and turn latch Due to the length, this tube will be at a 45 degree angle to extend under the frame of the truck, customer to confirm that this will be acceptable _____
<b>60-99-10AA</b>	<b>1</b>	<b>Storage Compartment for Sign Bases and Floor Dry Box - Rear Right Side Comp</b> Sign Base storage, floor dry box w/chute Dimensions for customer sign base = 7" x 7" x 25" high Provide dimensions for customer floor dry box w/chute _____
<b>INSTRUMENTATION</b>		
<b>70-11-0000</b>	<b>1</b>	Warning Label on Pump Operator's Panel
<b>70-11-0500</b>	<b>1</b>	<b>Side mount instrument panel</b> No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position  No deckplate on side of pumphouse
<b>70-11-1500</b>	<b>1</b>	<b>Stainless steel instrument panels</b> No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position
<b>70-11-3200</b>	<b>1</b>	<b>Colour coded tags</b>
<b>70-11-4500</b>	<b>1</b>	<b>Diamondback grip type panel hood step right side</b>
<b>70-11-5110</b>	<b>1</b>	<b>Open storage at top of pump house</b> Drain holes required (plumbed down to below frame level) Plastic interlocking tile required on floor. Lighting required as it is a storage compartment, active when park brake is set
<b>70-11-5300</b>	<b>1</b>	<b>Right side painted pump access door</b> No opening dimension less than 18" Slot required for Primer level viewing
<b>70-11-7500</b>	<b>1</b>	<b>Heat pan-aluminum</b>
<b>70-11-8000</b>	<b>1</b>	<b>Heater in pump compartment</b> Switch located on left side pump operator's panel
<b>70-11-8200</b>	<b>1</b>	<b>Rubber seal around suction and discharge openings on panel</b> SOPT 483
<b>70-20-1120</b>	<b>2</b>	<b>4-1/2" compound gauge - dual face -30 - 0 - 400</b> To be within 8" of each other - edge to edge
<b>70-20-2130</b>	<b>8</b>	<b>2-1/2" pressure gauge - dual face 0-400</b> Gauge to be no more than 6" from edge of the gauge to the center of the control.
<b>70-20-2500</b>	<b>1</b>	<b>Primer control - Trident for main pump</b>
<b>70-20-2501</b>	<b>2</b>	<b>Additional Primer control - Trident for LS and RS MIV pre-prime</b>

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
<b>70-20-3300</b>	<b>1</b>	<b>FRC InControl Governor Control</b> Throttle can be no lower than 42" and no higher than 72" from operator's standing position.
70-20-3500	1	Electric water level gauge on pump panel, Class One
<b>70-20-3611</b>	<b>1</b>	<b>Remote PSTANK2 water level indicators each side, rear with driver</b> Interlock with park brake so powered only when the park brake is set.
70-20-6500	1	Test gauge panel Mount below the compound gauges for proper draining
<b>70-20-7500</b>	<b>1</b>	<b>Heat exchanger control valve</b>
<b>70-21-5500</b>	<b>1</b>	<b>Panel readout for Battery Conditioner</b> Left side cab step area
<b>71-21-4000</b>	<b>1</b>	<b>Microphone compartment</b> This compartment is 7" x 6" x 4" deep. Customer to specify if microphone and cable will not fit in this space Wired for microphone, supplied by Metafab. This will be a 1521517 Motorola HMN1056D microphone, approved at preconstruction meeting Wired to TMR
<b>71-21-4500</b>	<b>1</b>	<b>Speaker on pump panel</b> wired to TMR
<b>ACCESSORIES</b>		
<b>80-11-5000</b>	<b>2</b>	<b>6" x 10' lightweight suction hose (ea)</b> Tray mounted on portable tank rack 60-41-6001 and ladder rack 60-41-9001
<b>80-11-5025</b>	<b>1</b>	<b>6" x 13' long suction hose</b> Tube mounted RS rear
<b>80-11-6010</b>	<b>2</b>	<b>TFT AJ8NX-NX 6" FNH x 6" MNH detent elbow</b> There will be a rigid male x detent swivel elbow installed on the left and right 6" suction The fitting must not hit the door edges on the pump panel door or the right side front of the body P/N 1501168
<b>80-12-4502</b>	<b>2</b>	<b>6" low level strainer with 1-1/2" venturi connection - TFT A03HNXJET</b>
<b>80-13-1000</b>	<b>2</b>	<b>Hose wrenches (double) with holder</b> Customer specified mounting location to be on the right side pump panel and back of body
<b>80-13-1100</b>	<b>1</b>	<b>Hose wrenches (triple) with holder</b> Customer specified mounting location to be on the left side pump panel
<b>80-14-0500</b>	<b>1</b>	<b>24' 2 section extension ladder PEL 24</b> Stored on LAS
<b>80-14-5500</b>	<b>1</b>	<b>14' aluminum roof ladder PRL-14</b> Stored on LAS
<b>80-15-1000</b>	<b>1</b>	<b>2000 l gallon portable tank - Husky</b> There will be a 2000 Imperial Gallon Husky porta tank with yellow liner stored in the

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
		PTS (60-41-6001)
80-16-1000	1	<i>Price Adjustment</i>
80-16-10AA	1	<i>Akron 3426 deck monitor with stacked tips and stream straightener</i> 2-1/2" threads are to be customer thread, confirmed at preconstruction meeting
80-17-0500	1	<i>20# dry chemical fire extinguisher and mount</i>
80-17-1000	1	<i>15# CO2 fire extinguisher and mount</i>
80-18-0600	1	<i>SCBA brkt w/strap - ZICO ULLH - crew cab mount</i> mounted inside cab on rear window above center console
80-19-0500	2	<i>Large folding wheel chock - aluminum (ea)</i> Stored in LS fender compartments
80-99-05AA	1	<i>Mount Department Supplied TFT Monitor Blitz Force at Rear</i> Mount is in the parts room, received from Fire Department May 13
80-99-10AA	5	<i>2-1/2" EZ Locks Adapter Mounting Brackets</i> 1500902, ship loose
80-99-11AA	5	<i>1-1/2" EZ Lock Adapter Mounting Brackets</i> 1500694, ship loose
80-99-12AA	1	<i>4" Storz Mounting Adapter</i> A 1501176 4-inch adapter will be supplied and attached inside rear compartment to place the 4-inch quick fill cap for when apparatus is in use as a tanker.
80-99-20AA	4	<i>2.5" x 1.5" reducing caps with chrome plated cap</i> These will be installed on the 2-1/2" discharges - left side, right side and on rear right side of body. 1501296 adapter with 1500281 cap
80-99-25AA	1	<i>4" Storz to 2.5" male adapter with end cap</i> 1501016 adapter with 1500294 cap This fitting will be shipped loose
80-99-30AA	1	<i>Mount for customer hydrant adapter - PAC 1008</i> 1562645, ship loose
80-99-35AA	1	<i>TFT Detent valve 2.5" F x 2.5" M H-3VONJ-NJ</i> Ship loose
80-99-40AA	1	<i>Akron Mini Stream Shaper 2.5" F 2.5" M 34854002</i> Ship loose
80-99-45AA	1	<i>Mount customer siamese</i> Customer siamese to be mounted under Fireman's Friend Dimensions = 11" wide x 14" high x 17" long PAC 4" Storz mount 1040-4 and a PAC 1008 extended Adjust a Mount clamp.