



## Shop Order-00-10-15: Unclassified

Alma Fire Department  
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**Exp. Date:** 12/22/2013  
**Quote No:** JALNB-0018  
**Job/Order No:** 17661

**BODY:** 00-10-15 Metalfab Pumper - ULC 05/13

02/17/2017

Page 1

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			<b>== Metalfab Pumper - ULC 05/13 - 0.000 ==</b>	<b>1</b>	<b>MTL</b>
<b>S</b>			<b>Change Order F</b>	<b>1</b>	<b>MTL</b>
00-10-1500			Metalfab Pumper E	1	MTL
00-20-1000			Company Profile E	1	MTL
00-20-1500			Standard Body Warranty	1	MTL
00-20-1550			Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
<b>00-20-1600</b>			<b>Waterous Pump Warranty - 5 years</b>	<b>1</b>	<b>MTL</b>
00-20-1800			Ultra Tank Lifetime Warranty	1	MTL
00-20-2000			Plant Visits - unlimited at customer expense	1	MTL
00-20-3000			No Bonding Required	1	MTL
00-20-3500			Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000			Quality System registered to ISO 9001:2008	1	MTL
00-20-4500			Fire Apparatus Manufacturers' Association Membership	1	MTL
			GENERAL INFORMATION	1	MTL
10-11-0000			Intent E	1	MTL
10-11-0105			Vehicle Data Recorder not requested	1	MTL
10-11-1100			BLC S515-04 Compliance	1	MTL
10-11-1500	>		ULC Testing - Pumper	1	MTL
10-11-2100			Maximum length not specified E	1	MTL
10-11-2200			Maximum height not specified E	1	MTL
<b>10-11-2400</b>			<b>Overall length is 30' or more</b>	<b>1</b>	<b>MTL</b>
10-11-2500			General Construction	1	MTL
10-11-3000			Manuals - two copies	1	MTL
<b>10-11-3600</b>	<b>S</b>	<b>&gt;</b>	<b>Delivery - FOB Fire Department</b>	<b>1</b>	<b>MTL</b>
<b>10-11-4100</b>	<b>S</b>		<b>Payment Terms - Body only COD(with customer supplied chassis)</b>	<b>1</b>	<b>MTL</b>
10-20-1000			Hose bed capacity - standard ULC Pumper	1	MTL
10-20-2000			Equipment carrying capacity - standard ULC Pumper	1	MTL
			CHASSIS INFORMATION	1	MTL
<b>20-11-0500</b>	<b>&gt;</b>		<b>Customer supplied Chassis</b>	<b>1</b>	<b>MTL</b>
20-11-1500			E013 Emission chassis modifications	1	MTL
20-11-1600			Chassis Motor Vehicle Inspection not required	1	MTL
20-21-0500			Fluid capacity plate	1	MTL
20-21-0600			Pumping test plate	1	MTL
<b>20-21-1040</b>			<b>Maximum riders sign - 6 persons</b>	<b>1</b>	<b>MTL</b>
<b>20-21-1510</b>	<b>S</b>		<b>Seat belt warning labels - 4 door unit</b>	<b>1</b>	<b>MTL</b>
20-21-1550			Tire Pressure Indicators not requested	1	MTL
20-21-1600			Apparatus Information Label	1	MTL
20-21-2000			Non removable key	1	MTL
20-21-2500			Shifter lock not required E	1	MTL
20-21-3500			Rear step warning label	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
20-21-3800			Front mudflaps	1	MTL
20-21-4000			Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200			Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
<b>20-31-0500</b>			<b>Alum tread fuel tank trim, Conv - 2 door</b>	<b>1</b>	<b>MTL</b>
20-31-1900			Chassis cab not painted E	1	MTL
<b>20-31-4700</b>	<b>&lt; &gt;</b>		<b>Extend front bumper, gravshld with preconnected hosewell</b>	<b>1</b>	<b>MTL</b>
			<b>E</b>		
			<b>24" frame extension with chassis.</b>		
			<b>Size hose well for capacity of 150' of 1- 3/4" hose and nozzle</b>		
			<b>Swivel fitting will be at the bottom of compartment</b>		
			<b>Hose well compartment will have hose rollers around the top</b>		
			<b>perimeter, and will have an aluminum tread plate cover with</b>		
			<b>single "D" handle</b>		
			<b>Install rollers (booster reel type) on the bumper to protect the</b>		
			<b>chassis and Q2B - ref drawing.</b>		
			<b>Compartments on outer end where possible (with tread plate</b>		
			<b>covers and lift and turn latches</b>		
20-41-0600			Intake air shutoff for engine not required	1	MTL
<b>20-41-0900</b>			<b>Auxiliary braking system disabled when pumping</b>	<b>1</b>	<b>MTL</b>
20-41-1100			Transmission programming - Allison WT	1	MTL
20-41-1500			Extend exhaust pipe - RS front of rear wheels	1	MTL
			E		
<b>20-41-1900</b>			<b>Battery boost terminals with chassis</b>	<b>1</b>	<b>MTL</b>
			<b>E</b>		
20-41-2000			Chassis batteries remain in OEM location	1	MTL
20-41-2510			Fuel fill at step fuel tank under cab	1	MTL
20-41-2600			Chassis fuel tank remains in OEM location	1	MTL
<b>20-41-5100</b>	<b>S</b>		<b>Rear Tow Hook - pintle hook</b> E	<b>1</b>	<b>MTL</b>
<b>20-41-5500</b>	<b>S</b>		<b>ON SPOT Automatic traction chains</b>	<b>1</b>	<b>MTL</b>
20-51-0500			Master disconnect switch - manual	1	MTL
<b>20-51-2500</b>			<b>Back up alarm included with chassis</b>	<b>1</b>	<b>MTL</b>
<b>20-51-3000</b>	<b>&lt;</b>		<b>Air inlet with matching fitting - LS</b>	<b>1</b>	<b>MTL</b>
			<b>Manual eject located in chassis step</b>		
20-51-3400			Protection valve installed for air operated accessories	1	MTL
<b>20-51-6200</b>	<b>S</b>	<b>&gt;</b>	<b>120 volt 20 A shore line connection in chassis cab</b>	<b>3</b>	<b>MTL</b>
<b>20-51-6500</b>			<b>Kussmaul Autocharge 1000 battery conditioner w/battery saver</b>	<b>1</b>	<b>MTL</b>
20-51-7100			Electric System Manager	1	MTL
<b>20-51-8010</b>	<b>&lt;</b>		<b>120 volt - 20 A volt inlet</b>	<b>1</b>	<b>MTL</b>
			<b>Manual eject to be located on LS chassis step</b>		
			<b>(Metalfab stocks - no p/n)</b>		
20-51-8500			Engine compartment lights (pair)	1	MTL
<b>20-51-9000</b>	<b>S</b>		<b>Air horns on hood, Horn button controled</b>	<b>1</b>	<b>MTL</b>
20-52-3000		<b>&gt;</b>	Chassis steering wheel lined up by others	1	MTL
20-60-0400			Chassis wheelbase does not change	1	MTL
<b>20-61-3000</b>	<b>S</b>	<b>&gt;</b>	<b>Enclosed crew cab - aluminum - 3 SCBA seats - 78" int ht</b>	<b>1</b>	<b>MTL</b>
<b>20-61-4500</b>			<b>Interior finish - gray quilted vinyl</b>	<b>1</b>	<b>MTL</b>
<b>20-61-5000</b>	<b>S</b>		<b>Crew cab windows - fixed (8 total)</b>	<b>1</b>	<b>MTL</b>
<b>20-61-5500</b>	<b>S</b>		<b>Crew cab windows - sliding (4 total)</b>	<b>1</b>	<b>MTL</b>
<b>20-90-1000</b>			<b>Sealed pass through cab to body</b>	<b>1</b>	<b>MTL</b>
<b>20-99-1500</b>	<b>U</b>		<b>Install adhesive non slip material on cab entry handles</b>	<b>1</b>	
			PUMP AND PLUMBING	1	MTL
<b>30-12-4000</b>			<b>Mechanical seals for Waterous pumps</b>	<b>1</b>	<b>MTL</b>
<b>30-12-6000</b>			<b>Waterous CSU single stage 1250 IGPM</b>	<b>1</b>	<b>MTL</b>
<b>30-15-0201</b>			<b>Plumbing - Waterous manifold pump TM</b>	<b>1</b>	<b>MTL</b>
			<b>E</b>		
<b>30-20-1000</b>			<b>Valves and controls - top mount panel</b>	<b>1</b>	<b>MTL</b>

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
30-20-1001			Valve brand not specified <i>E</i>	1	MTL
30-20-1500			Piping galvanized steel - general	1	MTL
30-20-1700	S		1-1/2" thread specifications - NPSH	1	MTL
30-20-1800	S		2-1/2" thread specifications	1	MTL
30-20-2000			Piping hydrostatic test	1	MTL
30-20-2505			Anodes in suction and discharge piping not requested	1	MTL
30-21-5530			Tank to Pump TM 3" w/ check valve manifold pump	1	MTL
30-22-0510			Tank Fill valve 2" TM	1	MTL
30-31-4010			Suction - 6" not gated each side manifold pump	1	MTL
30-31-7210		>	Waterous master intake suction valve - electric control	2	MTL
30-32-8505	S		Suction - 2-1/2" left side, TM control, Waterous manifold pump	2	MTL
30-32-9005	S		Suction - 2-1/2" right side, TM control, Waterous manifold pump	2	MTL
30-40-3005			4" right discharge, plumbed 4", handwheel, Waterous manifold pump	1	MTL
30-41-2015			2-1/2" RS discharge TM, bleeder, Waterous manifold pump	1	MTL
30-41-2515			2-1/2" LS discharge TM, bleeder, Waterous manifold pump	2	MTL
30-42-8510	S		1-1/2" rear discharge TM, plumbed 2"	1	MTL
30-43-1510			2-1/2" rear discharge TM, plumbed 2-1/2", bleeder	2	MTL
30-44-0510	S		1-1/2" crosslay (each) TM, 2" valve, bleeder	1	MTL
30-44-0710	S		1-1/2" speedlay (each) in crew cab under seat, TM, plumbed 2"	1	MTL
30-44-0710	U		Price Adjustment	1	
30-44-1010		>	1-1/2" front trash line TM, plumbed 2", hosewell	1	MTL
30-44-3510	U		Price Adjustment	1	
30-44-6510	S		Piping for monitor TM, plumbed 3", bleeder	1	MTL
30-51-0500			Pump shift-Midship air	1	MTL
30-51-0600			Manual over ride for pump shift on pump panel by Metalfab	1	MTL
30-51-1500			Power shift PTO - Automatic transmission	1	MTL
30-51-1501			PTO driveshaft <i>E</i>	1	MTL
30-51-6810			FRC InControl Governor/Throttle engine display with buttons	1	MTL
30-51-7000			Suction side relief V/V, manifold pump	2	MTL
30-51-7500	U		Trident Air primer	1	
30-51-7800	U	>	Pre Primer for gated suction	2	
30-51-8000			Heat exchanger <i>E</i>	1	MTL
30-52-1000			Master drain V/V, 12 port	1	MTL
30-52-2000			Drain valve for foam system header	1	MTL
30-52-4210	S		Foam System - Hypro FoamPro 2002 Single Tank	1	MTL
30-52-8100			Electric foam fill pump with panel pickup	1	MTL
30-52-9100			Foam concentrate label at foam tank fill	1	MTL
30-52-9200			Foam System Instruction Plates	1	MTL
30-52-9400			NFPA Foam System certification test	1	MTL
			WATER AND FOAM TANKS	1	MTL
40-11-2100			Ultra-Tank water tank (Imperial gallons)	1	MTL
40-11-2200			Water tank capacity certification (tank manufacturer)	1	MTL
40-11-4500			Tank capacity 800 Imperial Gallons	1	MTL
40-12-4500			Foam cell - 20 Imperial gallon	1	MTL
40-21-0500			3" tank to pump connection	1	MTL
40-22-0500			2" tank fill connection	1	MTL
40-23-0500			1" water level gauge connection	1	MTL
40-23-1000	S		1" foam level gauge connection	1	MTL
40-23-1050			4" Fireman's Friend connection	1	MTL
40-23-1070			3" direct fill connection	1	MTL
40-30-0500			Sump drain valve (3" gate valve) with linkage <i>E</i>	1	MTL
40-30-1000			Water Fill Box front left corner	1	MTL
40-31-0400			Rear dump valve not requested <i>E</i>	1	MTL
40-31-6000	S		2-1/2" rear gtd tank fill	1	MTL
40-31-9000			4" Storz rear fill, Fireman's Friend	1	MTL
			ELECTRICAL	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
50-11-0500			Base electrical system	1	MTL
50-11-0600			Warning Light Certification	1	MTL
50-11-0700			Low Voltage Electrical system test	1	MTL
50-11-0800			Low Voltage Electrical System Documents	1	MTL
50-11-0900			<b>Rocker switch panel with master warning switch</b>	1	MTL
50-11-1450			<b>Federal PA300 200 watt siren</b>	1	MTL
50-11-1630			<b>Siren speaker, 200 watt, in front bumper</b>	1	MTL
50-11-2000	S		<b>Federal Q2B mechanical siren - pedestal mount on bumper extension</b>	1	MTL
50-11-2600			<b>Siren to be accessible to driver and officer</b>	1	MTL
50-11-6150	S	>	<b>Federal JetSOLARIS 6001 LED light bar all red</b>	1	MTL
50-11-7600			<b>Rear LED Signal Master warning lights</b>	1	MTL
50-11-9000			<b>Rear beacons-Federal Sentry (pr) - both red</b>	1	MTL
50-12-5020	S	<	<b>Front LED flashers (pr)-red Federal QL64XF-R</b> Must have bezel around light	1	MTL
50-12-5210		<	<b>Front side inter lts (pr)-red LED Federal QL64XF-R</b> Must have bezel around light Mounted on front bumper tails	1	MTL
50-12-5310		<	<b>Body side inter lts (pr)-red LED Federal QL64XF-R</b> Must have bezel around light	1	MTL
50-12-5410		< >	<b>Additional body side inter lts (pr)-red LED Federal QL64XF-R</b> Must have bezel around light Mounted on side pump panels (ref drawing)	1	MTL
50-21-1500			Rear floods (pr)-Unity	1	MTL
50-21-1600			<b>Parking (ditch) lights in rear fenders</b>	1	MTL
50-21-5100		>	Compartment lighting - LED tube lights in each compartment (rollup doors)	1	MTL
50-21-5500			Door Ajar warning light	1	MTL
50-21-5550			<b>Equipment rack not stowed warning light</b>	2	MTL
50-21-8001			<b>Step lights for body steps - 4" LED</b>	1	MTL
50-21-8110			<b>Step lights for walkway - 4" LED</b>	1	MTL
50-21-8201			<b>Step lights for chassis steps - LED marker type</b>	1	MTL
50-21-8600			LED clearance lts and reflectors	1	MTL
50-21-8800			<b>LED intermediate turn signal/clearance/reflector length &gt;30'</b>	1	MTL
50-22-0800			<b>Federal 4 QuadraFlare LED tail/brake-turn-backup-warning module (pr)</b>	1	MTL
50-31-6006	S	>	<b>Scene lights (pr) - Federal QL97 LED</b>	3	MTL
50-31-6010	S		<b>Scene light boxes (pr) - tread plate</b>	2	MTL
50-31-6550			<b>Ground lighting (LED Lumabar) - 2 door chassis</b>	1	MTL
50-31-6580			<b>Ground lighting (LED Lumabar) - top mount body</b>	1	MTL
50-35-0500	S		<b>Installation of customer supplied mobile radio</b>	2	MTL
50-35-0559	S		<b>Mobile radio antenna provided by customer</b> E	2	MTL
50-99-05AA	U		<b>Install customer supplied cell phone</b>	1	
50-99-1000	U		<b>Install customer supplied telescoping floods</b>	2	
50-99-15AA	U		<b>Harrison MSV 6.0 KW hydraulic generator</b>	1	
51-31-3000	U		<b>120 volt wiring for generator</b>	1	
51-31-4000	S	>	<b>Electric cord reel with 200' x 12/3 cable, lighted box</b> BODY	1	MTL
60-10-1400			Single axle extruded aluminum body	1	MTL
60-10-4100			No "beavertail" rear step supports	1	MTL
60-10-4600			Painted fender surround	1	MTL
60-10-4700			Integral aluminum fender trim	1	MTL
60-10-5400		>	Diamondback pump/house steps	1	MTL
60-10-5430		>	Diamondback 19" rear step	1	MTL
60-10-6000			Extruded rub rail	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
60-11-0200		>	Front left side compartments intermediate height	1	MTL
60-11-0600		>	Front right side compartments intermediate height	1	MTL
60-11-0900		>	Rear left side compartments intermediate height	1	MTL
60-11-1300		>	Rear right side compartments intermediate height	1	MTL
60-11-1900		< >	Low side compartment (up to 18") each	2	MTL
			One over RS rear wheels, one over LS rear wheels with flush mount drop down doors		
60-11-3100			No rear compartment <span style="float: right;">E</span>	1	MTL
60-11-4500			Flush mount aluminum door - single with "D" handle	2	MTL
60-11-5610			Rollup door - painted job colour - intermediate height	4	MTL
60-31-4100	S		Extruded aluminum handrails	1	MTL
60-31-5500			Steps at rear of body (folding)	1	MTL
60-31-5600			Steps and grab handles at front of body next to pump panel	1	MTL
60-31-6500			Compartment matting-Turtle tile	1	MTL
60-31-8000			BA bottle compt (ea)-fender well	4	MTL
60-31-8700	S	>	Sliding tray (ea) - 400 pound capacity with gas strut	1	MTL
60-31-9600		>	Adjustable shelf (ea)	4	MTL
60-32-3550			Two adjustable hose divider (each)	1	MTL
60-32-7500			Hose bed - aluminum	1	MTL
60-33-0000			Paint exterior - Imron Elite	1	MTL
60-33-0200			Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600			Chassis wheels not painted	1	MTL
60-33-1000			Paint pump and plumbing job colour	1	MTL
60-33-1500			Buffed finish compartment interior	1	MTL
60-33-2200			Lettering - 80 letters up to 3" tall - 3 colour	1	MTL
60-33-3000			Reflective stripe - 4" white	1	MTL
60-33-3310	S		Reflective stripe - red and yellow chevron at rear	1	MTL
60-33-3500		<	Tarp over hose bed - black	1	MTL
			To have shock cords and J-hooks		
60-33-4600			Aluminum cover over crosslays - with end tarps (black)	1	MTL
60-34-05AA	U		Install Reflective stripe inside the pump house and Crew cab doors	1	
60-40-5500			Suction hose tube (each) with door	2	MTL
60-40-8500	S	>	Tail light box Fire Extinguisher tubes (pr)	1	MTL
60-41-1000	S		Pike Pole tube with door	2	MTL
60-41-1500			Attic ladder tube with rear door	1	MTL
60-41-7000	S	>	Drop down portable tank rack - manual operation	1	MTL
60-41-7100			Tread plate on body behind porta tank rack	1	MTL
60-41-7120			Tread plate exterior manual drop down porta tank rack	1	MTL
60-41-7500	S	>	Drop down ladder rack - 2 section, roof - manual operation	1	MTL
60-41-7520			Assist handles for manual drop down ladder rack	1	MTL
60-41-7530			Assist handles for manual drop down portable tank rack	1	MTL
			INSTRUMENTATION	1	MTL
70-11-0000			Warning Label on Pump Operator's Panel	1	MTL
70-11-1500			Stainless steel instrument panels	1	MTL
70-11-2000			Top mount instrument panel	1	MTL
70-11-2500			Transverse walkway	1	MTL
70-11-2700			No tread plate overlay on back of chassis cab	1	MTL
			E		
70-11-3100			Mansaver bars not required <span style="float: right;">E</span>	1	MTL
70-11-3200	S	<	Colour coded tags	1	MTL
			Color coded tags to be;		
			Red - 1-1/2" speed lay under crew cab		
			Blue - 1-1/2" Mattydale		
			Yellow - 1-1/2" rear preconnect in hose bed over tank		
70-11-3501			Compartments in ends of walkway not required	1	MTL
70-11-4500			Diamondback grip type panel hood step right side	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
70-11-4600			Diamondback grip type panel hood step left side	1	MTL
70-11-5500			Right side tread plate pump access door	1	MTL
70-11-5600			Left side tread plate pump access door	1	MTL
70-11-5700			Transverse tread plate pump access door	1	MTL
70-11-7600		<	Heat pan-aluminum for Waterous pump	1	MTL
			Enclose the pump as much as possible to retain the maximum heat.		
70-11-8000			Heater in pump compartment	1	MTL
70-20-1500			2-1/2" pressure gauge - dual face 0-600	11	MTL
70-20-3300			FRC InControl Governor Control	1	MTL
70-20-3500			Electric water level gauge on pump panel, Class One	1	MTL
70-20-3610	S		Remote PSTANK water level indicators each side, rear with driver	1	MTL
70-20-6500			Test gauge panel	1	MTL
70-20-7500			Heat exchanger control valve	1	MTL
70-21-1500	S		Electric Foam Level gauge	1	MTL
70-21-2100		>	PTO Hourmeter	1	MTL
70-21-5500			Panel readout for Battery Conditioner	1	MTL
70-99-10AA	U		Pump Panel LED red and clear lights	1	
71-21-3101		>	Transmission warning light not required	1	MTL
			E		
			ACCESSORIES	1	MTL
80-13-1000	S		Hose wrenches (double) with holder	2	MTL
80-13-1200	S		Clare hose wrenches (double) with holder	2	MTL
80-13-2500	S		Pike pole, fibreglass handle - 10' long	1	MTL
80-13-4000	S		Axe, pick head, fibreglass handle and bracket	2	MTL
80-14-0500	S		24' 2 section extension ladder PEL 24	1	MTL
80-14-5500	S		14' aluminum roof ladder PRL-14	1	MTL
80-14-8500	S		10' aluminum folding attic ladder FL-10	1	MTL
80-18-0600			SCBA brkt w/strap - ZICO ULLH - crew cab mount	3	MTL
80-99-05AA	U		Pike pole, fibreglass handle - 8' long	1	
80-99-1000	U		Customer supplied equipment	1	