



Shop Order

Cross Roads Rural Community Fire Company
 44 Langley Road
 Stratford, PE C1B 2K3

Exp. Date: 10/26/2020
Quote No: 10068-0026
Job/Order No: 21741
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

03/28/2022

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER C	1	MTL
00-05-0010		Dealer - Metalfab	1	MTL
00-10-1500		Metalfab Pumper	1	MTL
00-20-1000		Company Profile	1	MTL
00-20-1500		Standard Body Warranty	1	MTL
00-20-1550		Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1700		Hale Pump Warranty - 5 years	1	MTL
00-20-1800		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
00-20-3000	S	No Bonding Requested	1	MTL
00-20-3500		Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000	S	Quality System registered to ISO 9001:2015	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		GENERAL INFORMATION	1	MTL
10-11-0000		Intent E	1	MTL
10-11-0110		Vehicle data recorder included with chassis	1	MTL
10-11-1100		ULC S515-13 Compliance	1	MTL
10-11-1500		> ULC Testing - Pumper - Imperial units of measure	1	MTL
		ENG. NOTE:		
		Note in the shop note if the Fire Department wishes to witness the test		
10-11-2100		Maximum length not specified E	1	MTL
10-11-2200		Maximum height not specified E	1	MTL
10-11-2400		Overall length is 30' or more	1	MTL
10-11-2500		General Construction	1	MTL
10-11-3000		Manuals - two copies	1	MTL
		***Two copies of manuals are required.		
10-11-3600	S	> Delivery - FOB Fire Department	1	MTL
		ENG. NOTE:		
		Note in the shop note if more than 4 hours of training is required		
10-11-4000		Payment Terms - Chassis Net 10 days, Balance COD	1	MTL
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements - Add 350 lbs extra	1	MTL
		ENG. NOTE:		
		Specify the type of hose and quantity of hose to be carried on the vehicle		
		Department to specify hose load: 500' of 4" hose and 600' of 2.5" hose max which will add 350 lbs to the minimum.		
		As discussed at the pre-construction meeting of 11.26.2020		
10-20-2000		Equipment carrying capacity - standard ULC Pumper	1	MTL
		Unit designed to carry ULC recommended 2000 lbs of loose equipment.		
		CHASSIS INFORMATION	1	MTL
20-11-1000	S	Chassis - International HV613 4 door	1	MTL
		66,000 lb GVWR 20,000 lb front axle 46,000 lb rear axle		

PART NO	S	DESCRIPTION	QTY	ID
		283" wheelbase 172" Cab to axle 105" center of rear tandem axles to end of frame International A26 450 hp @ 1700 rpm 2100 governed rpm 1700 lb-ft torque @ 1000 rpm Allison 4000 EVS automatic transmission 320 amp alternator 1810 main drive lines Jacobs C-brake (includes 8VTV for tail light activation with C-brake 70 US gal / 265 Litre fuel tank for a clean BOC ESP, ABS, ATC VDR and seat belt display in overhead console 2303 red to match M13-16892 Officer's seat and the three rear passengers seats are "Bostrom Tanker" SCBA type seats complete with SecureALL brackets installed. (seats do not include face mask storage or cavity cover (parade panels).		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700	S	Chassis Motor Vehicle Inspection required The inspection is to be completed a few weeks before delivery	1	MTL
20-21-0500		Fluid capacity plate	1	MTL
20-21-0600		Pumping test plate	1	MTL
20-21-1030		Maximum riders sign - 5 persons	1	MTL
20-21-1510		Seat belt warning labels - 4 door chassis	1	MTL
20-21-1520		Helmet warning label - do not wear helmet	4	MTL
20-21-1570	S	LED Tire Pressure Indicators - Tandem Axle - installed prior to delivery	1	MTL
20-21-1600		Apparatus Information Label An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: ** m high ** m long ** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"	1	MTL
20-21-2000	S	Keyless ignition - with chassis	1	MTL
20-21-2500		Shifter lock not required E	1	MTL
20-21-3500		Rear step warning label	1	MTL
20-21-3810		Front mudflaps provided with chassis E	1	MTL
20-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-1100		Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr Steps to be continuous where possible and to extend to the back of the cab as far as possible. The lower step to be as wide as possible to match the body rub rail.	1	MTL
20-31-1900	S	Chassis cab painted single color by chassis OEM	1	MTL
20-31-7500	S	Console in cab Install siren (50-11-1400), pump shift (30-51-0500) and two (2) radio provisions which will be Jotto Desk plates in console. Storage area with hinged cover and lift and turn latch provided at rear of console. Gray zolatone finish Two (2) Vulcan 180 flashlights will be installed on the back of the console as requested by Shane Mallard by e-mail on 08.30.2021	1	MTL
20-41-0600	S	Intake air shutoff for engine not requested	1	MTL
20-41-0900		Auxiliary braking system disabled when pumping	1	MTL
20-41-1100		Transmission programming - Allison WT	1	MTL
20-41-1500	S	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. Department confirmed that no special provision for ventilation system is required. As discussed at the pre-construction meeting of 11.26.2020	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-41-1801		Battery boost terminals not required - batteries accessible	1	MTL
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
20-41-5000		Rear Tow Hooks - under body	1	MTL
		*** Flat bar tow hooks under rear step (2)		
20-51-0700		Master Battery Disconnect included with chassis	1	MTL
20-51-2500		Back up alarm included with chassis	1	MTL
20-51-3000	S	Air inlet with matching fitting - LS	1	MTL
		Located on left side pump panel		
		Department advised that this connection is required in addition to the compressor 20-51-6600 and will be used as a backup. As discussed at the pre-construction meeting of 11.26.2020.		
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6200	S	> 120 volt 20 A shore line connection in chassis cab	2	MTL
		ENG. NOTE:		
		Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet		
		Standard 5-20R duplex receptacle in chassis cab, not fused		
		One receptacle located as required for the battery conditioner 20-51-6600 to plug in to.		
		One receptacle located on the back of the console 20-31-7500		
		Receptacles will be minimum 12" from floor level as per ULC.		
		As discussed at the pre-construction meeting of 11.26.2020		
20-51-6600		Kussmaul Pump Plus conditioner/compressor	1	MTL
		Battery charger will be located under/behind rear seat.		
		Compressor will be located in the pump house, easily accessible through right side pump door and will have protective shield installed as required.		
20-51-7102	S	Electric System Management - International Diamond Logic	1	MTL
20-51-7500		Super Auto eject for 120 v - 20 A with sealed enclosure	1	MTL
		Located in left side cab step area, minimum 24" from ground level.		
20-51-8510	S	Engine compartment light LED	1	MTL
		One required.		
		Switched when park brake is set.		
20-51-9110	S	Air horns on hood installed by Metalfab, chassis OEM switch controlled	1	MTL
		Air horns are supplied and installed on cab hood by Metalfab.		
		Air horns only will be controlled by the chassis OEM supplied driver's lanyard and the push button on chassis dash.		
		Air horns and electric horn will be controlled simultaneously by the steering wheel horn button (20-52-0000).		
20-52-0000	S	Horn button air horn / electric horn actuation	1	MTL
		The chassis steering wheel button will operate the air horn and electric horn simultaneously.		
20-52-3000		> Chassis steering wheel lined up by others	1	MTL
		ENG. NOTE:		
		Required for all chassis except Freightliner, Sterling, Spartan		
20-52-4000		Rear View Camera system	1	MTL
		Rearview Systems STM5600 with 5.6" colour monitor in cab rigidly mounted.		
		The rear view camera will operate independently from the dash cam 20-99-05AA.		
20-60-0400		Chassis wheelbase does not change	1	MTL
20-99-05AA	U	Dash cam installed behind front windshield	1	
		The dash cam will be a stand alone system and will not be connected to the Rear View back up camera system 20-52-4000.		
		No brand specified		
		SOPT#1184		

PART NO	S	DESCRIPTION	QTY	ID
PUMP AND PLUMBING				
30-11-8100		Hale QMAX 1250 IGPM single stage pump	1	MTL
30-12-3500		Mechanical seal for Hale QMAX/QTWO pumps	1	MTL
30-15-0104		Plumbing - Hale manifold pump SM SS E	1	MTL
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1002		Akron valves specified	1	MTL
30-20-1600		Piping stainless 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 - 3.25 x 5 NF - Charlottetown thread	1	MTL
		The 2-1/2" thread specification will be 3.25 x 5 NF Charlottetown thread. The department will supply a male and female adapter at time of pre-construction for testing purposes.		
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30-20-2000		Piping hydrostatic test	1	MTL
30-20-2500		Anodes in suction and discharge piping	1	MTL
		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.		
30-21-5560		Tank to Pump SS 3" w/ check valve manifold pump	1	MTL
30-22-1520		Tank Fill valve 2-1/2" SS	1	MTL
30-31-4010	S	Suction - 6" gated each side manifold pump	1	MTL
30-31-7100		> Hale master intake suction valve - handwheel control	2	MTL
		ENG. NOTE: Not available for top mount panels Hale pumps only Note location in Shop Note		
		Suction to be gated is left side and right side 6" inlets. Hand wheel controls and indicator lights are located adjacent to the respective inlet (Left side and right side pump panels)		
30-32-7530	S	Suction - 2-1/2" left side SS, bleeder, Hale manifold pump	1	MTL
		The suction fitting will be 4" from the pump panel for better functionality and to match M13-16892. As discussed at the pre-construction meeting of 11.26.2020		
30-40-2020		4" right discharge SS, plumbed 3", Hale manifold pump	1	MTL
		Complete with bleeder and slo-close. 4" Storz connection.		
30-41-2020		2-1/2" RS discharge SS, bleeder, Hale manifold pump	1	MTL
30-41-2520		2-1/2" LS discharge SS, bleeder, Hale manifold pump	2	MTL
30-43-1520		2-1/2" rear discharge SS, plumbed 2-1/2", bleeder	2	MTL
		*** Both right side		
30-44-0520		1-1/2" crosslay (each) SS, 2" valve, bleeder	2	MTL
		Minimum capacity of 200' x 1-3/4" hose and nozzle in each hose lay. Equipped with stainless steel rollers on each end. Bleeder valve provided on pump panel.		
30-44-6520	S	Piping for monitor SS, plumbed 3", bleeder	1	MTL
		The 80-16-0500 Akron 3423 lift off monitor, stacked tips and direct mount shall be installed on monitor piping. There will be a drain control on the left side pump panel. Piping will be centered left to right and front to back in the area behind the crosslays as much as possible and piping will be extended so highest point of monitor is slightly higher than top of body to allow 360 degrees rotation. Customer confirmed at Pre-construction meeting of 11.26.2020.		
30-51-0500		Pump shift-Midship air	1	MTL
		***Includes "Pump Engaged" and "OK to Pump" indicator lights in cab ***Includes "Throttle Ready" indicator light on Pump operating panel		

PART NO	S	DESCRIPTION	QTY	ID
30-51-0700		Pump Gearbox mounted manual over ride for pump shift E	1	MTL
30-51-6800	S	FRC InControl Governor/Throttle engine display with throttle knob The governor will be an FRC InControl 400 to match M13-16892 as discussed at the pre-construction meeting of 11.26.2020	1	MTL
30-51-7000		Suction side relief V/V, manifold pump	2	MTL
30-51-7716	S	Trident Automatic Air Primer 3 barrel 3 location The primer will be a Trident Auto Primer with pre-prime on the LS and RS suction as discussed at the pre-construction meeting of 11.26.2020	1	MTL
30-51-7720	S	Additional air tank for air primer system An additional air tank is provided to improve air primer capacity. As discussed at the pre-construction meeting of 11.26.2020	1	MTL
30-51-8100		Heat exchanger included with chassis	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-3001		Foam system not requested E	1	MTL
WATER AND FOAM TANKS				
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-7500		Tank capacity 2500 Imperial Gallons	1	MTL
40-21-0500		3" tank to pump connection	1	MTL
40-22-1000	S	2-1/2" tank fill connection	1	MTL
40-23-0500	S	3/4" water level gauge connection	1	MTL
40-23-1050		4" Fireman's Friend connection	1	MTL
40-23-1060		10" Newton dump connection	1	MTL
40-30-0500		Sump drain valve (3" gate valve) with linkage E	1	MTL
40-30-1100		Water Fill Box middle left side	1	MTL
40-31-3500		10" rear Newton dump, stainless steel	1	MTL
40-31-3600		Newton dump - stainless steel 36" telechute	1	MTL
40-31-4710	S	Newton dump, top mount electric operation, SS The dump valve will be controlled by an electric control (40-31-5500) as discussed at the pre-construction meeting of 11.26.2020	1	MTL
40-31-5500	S	Electric operator for Newton dump, top mount The dump valve will be controlled by an electric control with the switch mounted on the left side at the rear of the body. As discussed at the pre-construction meeting of 11.26.2020	1	MTL
40-31-5610		> Rotating dump chute for Newton dump SS ENG. NOTE: Requires top mount control on dump valve	1	MTL
40-31-5800		Support for rotating dump chute if necessary Engineering to determine if this support is required	1	MTL
40-31-9000		4" Storz rear fill, Fireman's Friend Located left of Newton dump as shown on the proposal drawing. Bleeder required.	1	MTL
ELECTRICAL				
50-11-0450		Base electrical system - International Diamond Logic multiplex	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 As required by ULC and NFPA standards	1	MTL
50-11-0900		Rocker switch panel with master warning switch Rocker switches and indicator lights as supplied with chassis located in cab dash (part of Diamond Logic package) ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -REAR BEACONS -FLASHING WARNING	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		-LEFT SCENE		
		-RIGHT SCENE		
		-REAR SCENE		
		-REAR FLOODS		
50-11-1460	S	Federal EQ2B 200 watt siren The siren will be an EQ2B to match M13-16892 as discussed at the pre-construction meeting of 11.26.2020	1	MTL
50-11-1631	S	Siren speaker, 200 watt for EQ2B, in front left side bumper The siren speaker will be for an EQ2B to match M13-16892 as discussed at the pre-construction meeting of 11.26.2020 To be mounted on the left side of the bumper as discussed with Dave Milligan on 11.30.2021 by phone.	1	MTL
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-6100	S	Whelen F4N0QLED LED light bar NFPA Department to approve WECAD layout: Approved on Dec 14th, 2020 by e-mail based on a video sent on 12.08.2020	1	MTL
50-11-6501	S	Rear Directional Light not requested	1	MTL
50-11-8600	S	Rear LED beacons-Whelen MCFLED2R (pr) both red	1	MTL
50-12-8500	S	Front LED flashers (pr)-Whelen red LED 400	1	MTL
50-12-8600	S	Rear LED flashers (pr)-Whelen red LED 400	1	MTL
50-12-8700	S	Front side inter lts (pr) - Whelen red LED 400	1	MTL
50-12-8800	S	Body side inter lts (pr)-Whelen red LED 400	1	MTL
50-12-8900	S	> Add'l body side inter lts (pr)-Whelen red LED 400 ENG. NOTE: Required if distance between front and rear side intersection lights exceeds 25'	1	MTL
50-21-1505	U	Unity LED Rear Floods (pr) Switched in cab and on light head. Note that these lights are also used as rear area step lights and cannot be managed	1	
50-21-2535	U	FRC Spectra LED 12 volt telescoping light - SPA530-Q15 (ea) SPA530-Q15-SW-NS-SR Located on front of front end - one each side. Lights will be switched on pump panel as discussed at the pre-construction meeting of 11.26.2020 Hazard switch (SW) is wired to the equipment not stowed warning light in cab No Scratch (NS) option included Steady Rest (SR) option included These lights can be managed to shed. SOPT#395	2	
50-21-29AA	U	Additional lighting in cab to illuminate floor area (ULC reqmt) 4-Dr chassis There will be additional lights in the chassis cab to illuminate the floor and meet ULC	1	
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only Compartments over rear wheels with flush mount doors will have 4" LED grommet mounted lights in the front wall of the compartment interior.	1	MTL
50-21-5500		Door Ajar warning light Located in dash as part of the International Diamond Logic package. Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on" Wired to every door, hose bed cover (60-33-5000), SCBA tubes (60-31-8006), suction hose tubes (60-40-5500) and the Zico Access ladder (60-31-5000)	1	MTL
50-21-5550	S	Equipment not stowed warning light Located in dash as part of the International Diamond Logic package.	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on" One for the left side telelight and PTS One for the right side telelight and LAS		
50-21-8001		Step lights for body steps - 4" LED Switched with park brake	1	MTL
50-21-8201	S	Step lights for chassis steps - LED Switched with park brake	1	MTL
50-21-83AA	U	LED lumabars for rear access ladder Switched with park brake	1	
50-21-83BB	U	LED lumabars for the rear intermediate step Switched with park brake	1	
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8800		LED intermediate turn signal/clearance/reflector length >30'	1	MTL
50-22-0700	S	Whelen 64 LED tail/brake-turn-backup module (pr)	1	MTL
50-31-6006	S	> Scene lights (pr) - Federal QL97 LED - Right side ENG. NOTE: Specify location	1	MTL
		Located in upper front and rear corners of body sides. Switched in cab These lights can be managed to shed		
50-31-6007	U	Scene lights (pr) - Federal QL97 LED - Left side Located in upper front and rear corners of body sides. Switched in cab These lights can be managed to shed	1	
50-31-6008	U	Scene lights (pr) - Federal QL97 LED - Rear facing Located in the upper corners of panel over dump line as shown on the proposal drawing. Switched in cab and interlocked with reverse of transmission These lights can be managed to shed	1	
50-31-6011	S	Scene light boxes not requested	1	MTL
50-31-6560		Ground lighting (LED Lumabar) - 4 door chassis Switched with park brake	1	MTL
50-31-6570		Ground lighting (LED Lumabar) - side mount body Switched with park brake	1	MTL
50-99-10AA	U	Hose bed cover lights - 40" LED lumabars Switched with park brake SOPT#209	1	
		BODY	1	MTL
60-10-1600		Tandem axle extruded aluminum body	1	MTL
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600		Painted fender surround E	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400		> Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24" from ground	1	MTL
60-10-5430		> Diamondback 19" rear step ENG. NOTE: Maximum height of rear step is 24" from ground	1	MTL
60-10-6000		Extruded rub rail	1	MTL
60-11-0250		> Second front left side compartments intermediate height ENG. NOTE:	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Specify critical dimensions in shop note		
60-11-0300		> Front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0650		> Second front right side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0700		> Front right side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0900		> Rear left side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1300		> Rear right side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1900		> Low side compartment (up to 18") each ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body	4	MTL
60-11-3100		No rear compartment E	1	MTL
60-11-4535	U	Flush mount aluminum door - single with "D" handle Flip up doors with gas struts for the compartments over the rear wheels	4	
60-11-5510		Rollup door - intermediate height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	4	MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	2	MTL
60-11-5530	S	Rollup door - to enclose pump panel Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point There will be a rollup door on the left side pump panel as discussed at the pre-construction meeting of 11.26.2020	1	MTL
60-11-5660	U	Amdor pull straps - Flex HD - R1,L1 compartments and Pump panel door An additional pull strap wwill be required for the pump panel rollup door 60-11-5530 added at the pre-construction meeting of 11.26.2020	1	
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
60-31-5000		Zico access Ladder at rear of unit Minimum 7" clearance between rung and any obstruction	1	MTL
60-31-5600	S	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18" On front right side only where the left side panel has a rollup door.	1	MTL
60-31-5800	S	Intermediate step over rear dump	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-31-6500	S	Compartment matting - Plastic Interlocking Tile	1	MTL
60-31-8006	U	BA bottle compt (ea) - fender well Located between tandem axles as shown on the proposal drawing. Retaining loops included. Door ajar switch required for the interlocks for the ladder rack (60-41-9001) and porta tank rack (60-41-6001). Customer to specify make and model of cylinder to be stored Make - Scott Model - 2.2 Diameter of cylinder - 6-3/4" Overall length of cylinder - 23" Photo of valve/cap (to ensure retaining loop will fit) - F:/Data/Jacques/Current Project/Crossroads/Picture	4	
60-31-8650	U	Sliding Tray (ea) - 400lb capacity - Lock-in, Lock-out sliding hardware Installed at floor level in all six compartments; Tray #1 - Left side front compartment Tray #2 - Left side second front compartment Tray #3 - Left side rear compartment Tray #4 - Right side front compartment Tray #5 - Right side second front compartment Tray #6 - Right side rear compartment Customer confirmed above locations at the Pre-construction meeting of 11.26.2020 White reflective stripe is applied on the exposed edge for visibility when the compartment door is open	6	
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE: Specify location Installed at the following locations; Shelf #1 - Left side front compartment - shallow depth Shelf #2 - Left side front compartment - shallow depth Shelf #3 - Left side second front compartment - shallow depth Shelf #4 - Right side front compartment - shallow depth Shelf #5 - Right side front compartment - shallow depth Shelf #6 - Right side second front compartment - shallow depth Customer confirmed above locations at the Pre-construction meeting of 11.26.2020 White reflective stripe is applied on the exposed edge for visibility when the compartment door is open	6	MTL
60-32-3550	S	Two adjustable hose divider (each) Hand hold required in end Lenght and layout of hose bed dividers to be behind the water fill tower and will be long enough to carry the ULC required hose load only. As discussed at the pre-construction meeting of 11.26.2020.	1	MTL
60-32-7500	S	Hose bed - aluminum There will be a vertical partition between the water fill tower and hose load area to support the hose bed cover 60-33-5000. The area ahead of the water fill tower will be left uncovered and will not be used to carry hose. As discussed at the pre-construction meeting of 11.26.2020	1	MTL
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour red to match cab	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600	S	Chassis wheels not painted - wheels are polished aluminum	1	MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1500		Buffed finish compartment interior	1	MTL
60-33-2300	S	Lettering - special graphics - to match existing pumper *** Vinyl letters, Fire Department to provide details on location and text. Lettering includes: Door decal and Truck # 5	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		911 in red reflective on rear side compartment door Keep Back 500 Feet on back of body As shown on approval drawing and approved by e-mail from Dave Milligan on 12.02.2021		
60-33-3000		Reflective stripe - 4" white 50% of perimeter each side and 25% of perimeter front 3M Scotchlite material	1	MTL
60-33-3310		Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface. Printed 3M Scotchlite material	1	MTL
60-33-4600		Aluminum cover over crosslays - with end tarps (black)	1	MTL
60-33-5000	S	Aluminum cover over hose bed with end tarps - black Length of the hose bed covers will be to the vertical partition ahead of the water fill tower as discussed at the pre-construction meeting of 11.26.2020	1	MTL
60-40-5500		Suction hose tube (each) with door Rear access, tubes located under tee of tank. For storage of the 6" x 10' suction hoses 80-11-5000. Door ajar switch required. SS trim around opening.	2	MTL
60-41-1015		Pike Pole tube in suction hose tube For the storage of the two 10' pike poles 80-13-2500.	2	MTL
60-41-1500	S	Attic ladder tube with rear door Right side under compartment top, for the storage of the 10' attic ladder 80-14-8500 and dry wall hook (80-99-25AA) if room permits.	1	MTL
60-41-6001		> Zico hydraulic portable tank rack ENG. NOTE: Specify mounting location desired. If Portable tank is customer supplied, specify overall dimensions when the tank is in stored position Located on left side, for the storage of the 2500 Imperial gallon portable tank 80-15-1005 To be wired so only operable when park brake is engaged, flip up doors over the left side rear wheels are closed and SCBA doors (60-31-8006) are closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body.	1	MTL
60-41-6010		ZICO PTS switched at rear above tail light Switch is located on same side as electric rack - left side	1	MTL
60-41-6110		Painted plate on exterior of Zico PTS	1	MTL
60-41-7100		Tread plate on body behind porta tank rack	1	MTL
60-41-9001		> Zico hydraulic Ladder Access system ENG. NOTE: Specify mounting location desired. If ladder(s) are customer supplied, specify overall length and width, width between side rails, rung spacing; also specify ladder brand and model Located on right side, for the storage of the 24' two section extension ladder 80-14-0500 and the 14' roof ladder 80-14-5500. To be wired so only operable when park brake is engaged, flip up doors over the right side rear wheels are closed and the SCBA doors (60-31-8600) are closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body.	1	MTL
60-41-9010		ZICO LAS switched at rear above tail light E Switch is located on same side as electric rack - right side	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
INSTRUMENTATION			1	MTL
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-0500	S	Side mount instrument panel with rollup door on LS 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 There will be a rollup door on the left side pump panel as discussed at the pre-construction meeting of 11.26.2020	1	MTL
70-11-1500		Stainless steel instrument panels 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	1	MTL
70-11-3200		Colour coded tags	1	MTL
70-11-4100		Stainless steel side panel hood left side	1	MTL
70-11-4500		Diamondback grip type panel hood step right side	1	MTL
70-11-5000		Standard cover over rear top of pump house - no storage	1	MTL
70-11-5500	S	Right side tread plate pump access door No opening dimension less than 18"	1	MTL
70-11-7500		Heat pan-aluminum	1	MTL
70-11-8000		Heater in pump compartment Switch for heater is located on the left side pump operators panel	1	MTL
70-20-2130	U	2-1/2" pressure gauge - dual face 0-400 Gauge to be no more than 6" from edge of the gauge to the center of the control.	9	
70-20-2500	S	Primer control The primer will be a Trident Auto Primer with pre-prime on the LS and RS suction as discussed at the pre-construction meeting of 11.26.2020	1	MTL
70-20-2501	S	Additional Primer control The primer will be a Trident Auto Primer with pre-prime on the LS and RS suction as discussed at the pre-construction meeting of 11.26.2020	2	MTL
70-20-3300	S	FRC InControl Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position. The governor will be an FRC InControl 400 to match M13-16892 as discussed at the pre-construction meeting of 11.26.2020	1	MTL
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-3610	S	Remote PSTANK2 water level indicators each side, rear with driver Located as shown on the proposal drawing Interlock with park brake so powered only when the park brake is set.	1	MTL
70-20-6500		Test gauge panel Mount below the compound gauges for proper draining	1	MTL
70-20-7500		Heat exchanger control valve	1	MTL
70-21-5500		Panel readout for Battery Conditioner Located left side step area adjacent to the 120-VAC Auto Eject.	1	MTL
ACCESSORIES			1	MTL
80-11-5000		6" x 10' lightweight suction hose (ea) Tube mounted	2	MTL
80-12-2500		6" barrel strainer Shipped loose, not mounted - Customer will mount in Customer's supplied bracket.	1	MTL
80-13-0500		Rubber mallet Shipped loose, not mounted - Customer will mount in Customer's supplied	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		bracket.		
80-13-0510	S <	PAC Toolok bracket 1003-HD-Y for mounting rubber mallet SOPT #319	1	MTL
		The rubber mallet (80-13-0500) will be installed on the left side pump panel as requested by Shane Mallard by e-mail on 05.27.2021		
80-13-1000	S	Hose wrenches (double) with holder There will be a set of double hose wrench supplied and installed on the rear of the body as discussed with Shane Mallard on 07.21.2021	1	MTL
80-13-1100	S	Hose wrenches (triple) with holder A pair of triple hose wrenches will be supplied and installed as per fire department instructions. Mounting location: Side wall of LS pump panel compartment and right side pump panel As requested by Shane Mallard by e-mail on 05.27.2021 and discussed on 07.21.2021	2	MTL
80-13-2500		Pike pole, fibreglass handle - 10' long Tube mounted.	2	MTL
80-13-4000	S	Axe, pick head, fibreglass handle and bracket To be mounted in a compartment as per fire department instruction. Mounting location: R3 preferably or R4 as an alaternative As requested by Shane Mallard by e-mail on 05.27.2021 and confirmed on 08.30.2021	1	MTL
80-13-4500	S	Axe, flat head, fibreglass handle and bracket To be mounted in a compartment with the Ironslock PAC bracket (80-99-06AA) and 30" Halligan 30" Tri-bar (80-99-60AA) as per fire department instruction. Mounting location: R3 As requested by Shane Mallard by e-mail on 05.27.2021 and confirmed on 08.30.2021	1	MTL
80-14-0500		24' 2 section extension ladder PEL 24 Mounted on LAS	1	MTL
80-14-5500		14' aluminum roof ladder PRL-14 Mounted on LAS	1	MTL
80-14-8500		10' aluminum folding attic ladder FL-10 Tube mounted	1	MTL
80-15-1005		2500 l gallon portable tank - Husky Porta tank liner to be yellow in color and to have two (2) drains Mounted on PTS	1	MTL
80-16-05AA	U	Akron 3423 Portable/deck monitor with stacked tips Monitor is installed on 30-44-6520 piping. Portable base is shipped loose. Order base, stream straightener, and bottom of stacked tips with Customer thread. (3.25 x 5 NF Charlottetown thread)	1	
80-17-0500	S	20# dry chemical fire extinguisher and mount An ABC extinguisher will be supplied and installed as per fire department instructions. Mounting location: R5 As requested by Shane Mallard by e-mail on 05.27.2021 and confirmed on 08.30.2021	1	MTL
80-17-1500	S	2 gallon water extinguisher with mount A water extinguisher will be supplied and installed as per fire department instructions. Mounting location: R5 As requested by Shane Mallard by e-mail on 05.27.2021 and confirmed on 08.30.2021	1	MTL
80-19-0500	S	Large folding wheel chock - aluminum (ea) To be mounted in the L2 compartment under the adjustable shelf 60-31-9600 in	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
		the 80-19-0600 brackets. As discussed at the pre-construction meeting of 11.26.2020		
80-19-0600		> Horizontal bracket for folding wheel chock (ea) ENG. NOTE: Specify location, otherwise ship loose See 80-19-0500 for mounting location	2	MTL
80-20-2500	S	Akron 2393 2-1/2" playpipe with stacked tips There will be an Akron 2393 playpipe with stacked tips supplied and mounted in a compartment with PAC bracket K5006 (80-99-41AA). Department to advise mounting location: L2 compartment if possible As requested by Shane Mallard by e-mail on 05.27.2021 and confirmed on 08.30.2021	1	MTL
80-20-4000	S	Double female adapter 2-1/2" PYROLITE There will be a pair of double female adapters supplied and mounted in a compartment with PAC bracket 1042-2 (80-99-40AA). Department to advise mounting location: L1 compartment As requested by Shane Mallard by e-mail on 05.27.2021 and discussed on 07.21.2021	2	MTL
80-20-4500	S	Double male adapter 2-1/2" PYROLITE There will be a pair of double male adapters supplied and mounted in a compartment with PAC bracket 1042-2 (80-99-40AA). Department to advise mounting location: L1 compartment As requested by Shane Mallard by e-mail on 05.27.2021 and discussed on 07.21.2021	2	MTL
80-99-05AA	U	Zico UHH-1 helmet holder - compartment mounted There will be five (5) helmet brackets supplied and mounted in a body compartment as instructed by the fire department. There will be three (3) on the right side and two (2) on the left side. Mounting location: 1, 2, 3. R1 compartment 4, 5. L2 compartment As requested by Shane Mallard by e-mail on 05.27.2021 and confirmed on 08.30.2021 SOPT 426	5	
80-99-06AA	U	PAC Ironslok K5003B bracket, mounted There will be a PAC Ironslok bracket K5003B supplied and mounted in a compartment as directed by the fire department. The bracket will hold the flat axe (80-13-4500) and a 30" Haligan Tri-bar (80-99-60AA). Mounting location: R3 As requested by Shane Mallard by e-mail on 05.27.2021 and confirmed on 08.30.2021 SOPT 871	1	
80-99-25AA	U	6' Flamefighter Drywall Hook DWH06 There will be a Drywall Hook supplied and stored in the tube under the right side fender top (60-41-1500) As requested by Shane Mallard by e-mail on 05.27.2021 SOPT 211	1	
80-99-40AA	U	PAC bracket 1042-2 for adapter mount The double male and double female adapters (80-20-4000 and 80-20-4500) will be mounted as per fire department instructions. SOPT 1128 Mounting location: L1 compartment As requested by Shane Mallard by e-mail on 05.27.2021 and discussed on 07.21.2021	2	
80-99-41AA	U	PAC bracket K5006 for playpipe mount The playpipe (80-20-2500) will be mounted as per fire department instructions. SOPT 1128 Mounting location: L2 preferably of L5 as an alternative As requested by Shane	1	

PART NO	S	DESCRIPTION	QTY	ID
		Mallard by e-mail on 05.27.2021 and confirmed on 08.30.2021		
80-99-60AA	U	Akron Haligan Tri-bar30 There will be an Akron Halligan Tri-bar 30" supplied with the unit. It will be mounted in the PAC Ironloks bracket (80-99-06AA) with the flat head axe (80-13-4500) in a location as directed by the fire department. Mounting location: R3 As requested by Shane Mallard by e-mail on 05.27.2021 and confirmed on 08.30.2021 SOPT 25a	1	
80-99-80AA	U	2-1/2" to 1-1/2" reducer with end cap A pair of 2-1/2" to 1-1/2" reducer with end cap will be shipped loose with the unit. As requested by Shane Mallard by e-mail on 05.27.2021 SOPT 791	2	
80-99-85AA	U	Storz Mounting plate - 4"/5" Kocheck MF507 There will be one (1) Storz mounting plate supplied and installed with the completed unit as per fire department instruction. Mounting location: Rear bumper on right side As requested by Shane Mallard by e-mail on 05.27.2021 and discussed on 07.21.2021 SOPT 138	1	
80-99-90AA	U	Vulcan 180 flashlight There will be two (2) 12-volt Vulcan 180 with 12-VDC chargers supplied and mounted as per fire department instructions. Mounting location: back of 20-31-7500 console As discussed with Shane Mallard on 07.21.2021 and confirmed on 08.30.2021	2	
81-99-05AA	U	6" NHF long handle full time swivel by 4" Storz 30 deg elbow SKE4T6L There will be a 6" NHF long handle full time swivel by 4" Storz 30 deg elbow SKE4T6L adaptor shipped loose with the completed unit s discussed with Shane Mallard on 07.21.2021	1	
81-99-10AA	U	5" female with rocker to 4" Storz - swivel There will be 5" female threaded with lugs and full time swivel by 4" Storz 30 deg elbow SKE45R adaptor shipped loose with the completed unit as discussed with Shane Mallard on 07.21.2021 The 5" female thread will be 5.195x5 as shown in the picture F:/Data/Jacques/Current Projects/Crossroads/Picture	2	