

Shop Order

West Bay Road Fire Department Paul Shears 644 Marble Mountain Road West Bay Road, NS B0E 3L0 paul.shears@hotmail.com

Exp. Date: 12/29/2019 Quote No: JWBNS-0023

Job/Order No: 21833 **BODY:** 00-10-15

Metalfab Pumper - ULC 05/13

05/24/2022				Page
PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==		MTL
	S	Change Order E	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
00-20-3500		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
10-11-0105		Vehicle Data Recorder not requested E	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 chassis 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 122 lbs ENG. NOTE:	1	MTL
		Specify the type of hose and quantity of hose to be carried on the vehicle		
		400' of 4" hose, 650' of 1.75" hose and 400' of 2.5" hose as discussed at t	he	
		pre-construction meeting of 01.07.2021		
		There will be an additional 112lbs added to the standard 600lbs based on the ho	nse	
		carried.	30	
10-20-2000	S	Equipment carrying capacity - standard ULC Pumper - 2000 lbs	1	MTL
		CHASSIS INFORMATION	1	MTL
20-11-1000	S	Chassis supplied by Metalfab - Freightliner M2 106	1	MTL
		Freightliner M2 106 - 2022 model year		

05/24/2022		DESCRIPTION	OTV	Page 2
PART NO	S	DESCRIPTION	QTY	ID
		45,600 lb GVWR 14,600 lb front axle 31,000 lb rear axle		
		To be 231" wheelbase 166" cab to axle		
		Cummins L9 360 hp @ 2000 rpm 2200 governed rpm		
		1150 lb/ft torque @ 1200 rpm		
		Cummins exhaust brake, activates stop lamps		
		3000 EVS automatic transmission, PTO opening LH side and top RH		
		69 MPH top road speed		
		275 Amp alternator		
		189 litre fuel tank, LH		
		Power windows, manual door locks		
		No back window		
		A/C added by Paul Shears on 12.03.2020		
		Air horn controls are lanyards as requested by Paul Shears on 12.03.2020		
		ESC		
		Single color yellow - 00836403 EB Elite BC - paint sample approved by Paul She	ars	
		on 12.17.2020 and signed form is in the binder		
		Aluminum wheels		
		Add Engine compartment light - code 469-014		
		Add air tank - code 46A-002		
		Add all talk - code +0A-002		
20-11-1500		2013 Emission chassis modifications	1	MTL
	•			
20-11-1700	S	Chassis Motor Vehicle Inspection required prior to delivery	1	MTL
		There will be a chassis MVI done a few weeks prior to delivery		
20-21-0500		Fluid capacity plate	1	MTL
20-21-0600		Pumping test plate	1	MTL
20-21-1000		Maximum riders sign - 2 persons	1	
20-21-1500		Seat belt warning labels - 2 door chassis	1	
20-21-1560		LED Tire Pressure Indicators - Single Axle	1	
			-	
20-21-1600		Apparatus Information Label	1	MTL
		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		
			o+ o	
		Changes in height since the apparatus was manufactured shall be noted on this pl	ale	
		by the Fire Department"		
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	
20-21-3810	S	Front mudflaps provided with chassis	1	
20-21-4000	•	Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	
20-31-0500		Alum tread fuel tank trim, Conv - 2 door	1	MTL
		Vertical trim only, OEM cab steps remain		
20-31-1900	S	Chassis cab painted single color by chassis OEM	1	MTL
20-31-7500	S	Console in cab	1	MTL
		Install siren (50-11-1400), pump and roll indicator lights (30-51-0400), Tra	ffic	
		Advisor (50-11-6615), PTO engagement (30-51-1500) in console, PTO hourme	tor	
		(70-21-2100) and radio provisions (50-35-0500) - TMR in Center and VHF on s		
			iue	
		towards officer.		
		Storage area with hinged cover and lift and turn latch provided at rear of con	sole	
		- includes a divider to hold a binder.		
		Shelf on the back side to hold a VHF and two (2) TMR portable. Custo	mer	
		supplied chargers were picked up 07.09.2021. VHF base measures 4" x 5" a	nd	
		TMR bases measure 4" x 8"		
		Gray Zolatone finish		
		oray colatone illion		
20 44 2022		Intoles air about off for anning 4 4 - 4	_	0.071
20-41-0600	S	Intake air shutoff for engine not requested	1	
20-41-0900		Auxiliary braking system disabled when pumping	1	
20-41-1100		Transmission programming - Allison WT	1	
20-41-1500		Extend exhaust pipe - RS front of rear wheels E	1	MTL
		Engineering to specify exhaust pipe material as required by the chassis manufactu	rer.	
		Engineering to sign off on the exhaust configuration to make sure it meets the cha		
4		is a sign of the original control of the origin		

PART NO S
20-41-1900 S Battery boost terminals with chassis 1 MTL
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MTL 20-41-2000 Chassis batteries remain in OEM location 1 MTL 20-41-2600 Fuel fill at step fuel tank under cab 1 MTL 20-41-2600 Chassis fuel tank remains in OEM location 1 MTL 20-41-2600 S Rear Tow Hooks : through rear of body 1 MTL 20-51-2600 S Rear Tow Hooks : through rear of body 1 MTL 20-51-2600 Master Battery Disconnect included with reightliner chassis 1 MTL 20-51-2600 Back up alarm included with chassis 1 MTL 20-51-2600 Back up alarm included with chassis 1 MTL 20-51-2600 Air intel with matching fitting - LS Left side cab step area 1 MTL 20-51-3000 Protection valve installed for air operated accessories 1 MTL 20-51-3000 Protection valve installed for air operated accessories 1 MTL 20-51-3000 Protection valve installed for air operated accessories 2 MTL 20-51-3000 Protection valve installed for air operated accessories 2 MTL 20-51-3000 Protection valve installed for air operated accessories 2 MTL 20-51-3000 Protection valve installed for air operated accessories 2 MTL 20-51-3000 Protection valve installed for air operated accessories 2 MTL 20-51-3000 Protection valve installed for air operated accessories 2 MTL 20-51-3000 Protection valve installed for air operated accessories 2 MTL MTL 20-51-8000 Standard 5-20R duplex receptacle in chassis cab, not fused Both in cab - 1 for battery conditioner and 1 for TMR & VHF portable radio charger To be 12" minimum from chassis floor to meet ULC 20-51-8010 Standard 5-20R duplex receptacle in chassis floor to meet ULC MTL MTL 20-51-8010 Standard 5-20R duplex receptacle in chassis floor to meet ULC MTL MT
20-41-2000 Chassis batteries remain in OEM location 1 HTL 20-41-2600 Fuel flat step fuel tank under cab 20-41-2510 Sear Tow Hooks - through rear of body 1 HTL 20-41-2600 Sear Tow Hooks - through rear of body 1 HTL 20-41-2600 Sear Tow Hooks - through rear of body in back wall of back compartment with rubber seals and stainless steel slotted cover plates 20-51-0710 Master Battery Disconnect included with Freightliner chassis MTL 20-51-3800 Back up alarm included with chassis MTL 20-51-3800 Protection valve installed for air operated accessories MTL 20-51-3400 Protection valve installed for air operated accessories MTL 20-51-3400 Protection valve installed for air operated accessories Place 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 Both in cab - 1 for battery conditioner and 1 for TMR & VHF portable radio charger To be 12" minimum from chassis floor to meet ULC 20-51-6500 Kussmaul Autocharge 1000 battery conditioner w/battery saver Located back side of consoleffloor area. 20-51-8510 S Electric System Management - VMUX 120 volt - 20 A volt inlet Left side cab step area - Minimum 24" from grade. 20-51-8510 S Electric System Management - VMUX 120 volt - 20 A volt inlet Left side cab step area - Minimum 24" from grade. 20-51-8510 S Air horns and controls as supplied by chassis OEM There will be lanyards to activate the air horn as requested by Paul Shears on 12.03.2020. 20-52-0010 S Air horn control/actuation on pump operators panel SOPT #1056 There will be an air horn button mounted on the pump panel as requested at the pre-construction meeting of 01.07.2021 20-52-3500 S > Chassis steering wheel lined up by Metalfab ENG. NOTE: Freightliner, Stering, and Spartan only 20-52-4001 Chassis wheelbase does not change PUMP AND PLUMBING The pump will be a hale RSD 1050 IGPM PTO pump. The pump will be a hale RSD 1050 IGPM PTO pump.
20-41-5010 S Rear Tow Hooks - through rear of body "Flat bar tow hooks through rear of body in back wall of back compartment with rubber seals and stainless steel stotted cover plates 20-51-0710 Master Battery Disconnect included with Freightliner chassis 1 MTL 20-51-2500 Back up alarm included with chassis 1 MTL 20-51-3000 Air included with chassis 1 MTL 20-51-3000 Protection valve installed for air operated accessories 1 MTL 20-51-3000 Protection valve installed for air operated accessories 1 MTL 20-51-3000 Protection valve installed for air operated accessories 1 MTL 20-51-6200 Protection valve installed for air operated accessories 1 MTL 20-51-6200 Standard 5-20R duplex receptacle in chassis cab 2 MTL 20-51-6500 Standard 5-20R duplex receptacle in chassis cab, not fused Both in cab - 1 for battery conditioner and 1 for TMR & VHF portable radio charger To be 12" minimum from chassis floor to meet ULC 20-51-6500 Kussmaul Autocharge 1000 battery conditioner w/battery saver 1 Located back side of console/floor area. 20-51-8510 SElectric System Management - VMUX 10 volt - 20 A volt inlet 1 Left side cab step area - Minimum 24" from grade. 20-51-8510 SEngine compartment lights LED - with chassis One required to light up complete engine compartment and will be supplied with the chassis One required to light up complete engine compartment and will be supplied with minimum 24" from grade. 20-51-9001 SAIr horns and controls as supplied by chassis OEM 1 MTL 20-52-0010 SAIr horn control/actuation on pump operators panel 1 MTL 20-52-3500 SCAIR horn control/actuation on pump operators panel 1 MTL 20-52-3500 SCAIR horn control/actuation on pump operators panel 1 MTL 20-52-4001 Rear View Camera system 7" Rearview Systems STM7000 with 7" colour monitor in cab rigidly mounted on center dash area. 20-60-0400 Chassis wheelbase does not change 1 MTL 30-11-3011 UHale PTO driven pump 1 Hale RSD 1050 IGPM PTO Pump 1 The pump will be a hale RSD 1050 IGPM PTO pump.
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20-51-2500
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5UPI 1105
30-15-0304 Plumbing - non manifold pump SM SS 1 MTL
30-20-0500 Valves and controls - side mount panel 1 MTL
30-20-1002 Akron valves specified 1 MTL
30-20-1620 S Piping stainless steel - non manifold Pumper 1 MTL
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PART NO	S	DESCRIPTION	QTY	1	ID
30-20-1700	S	1-1/2" thread specifications NPSH		1	MTL
30-20-1800	S	2-1/2" thread specifications NSZ1		1	MTL
		Department to supply male and female sample thread for testing purpos	es.		
		Thread is 3.234x5 and was picked up 07.09.2021			
30-20-2000		Piping hydrostatic test			MTL
30-20-2510		Anodes in suction and discharge piping - non manifold pump		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.			
30-21-9510		Tank to Pump 4" Ball valve SS, handwheel control with check valve		1	MTL
		manifold pump			
30-22-0520	S	Tank Fill valve 2" SS			MTL
30-31-4020	S	Suction - 6" gated each side SS non manifold pump 6" header			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 and right.			
		Hand wheel control and indicator lights will both be located on left side p	ump		
		panel.			
30-32-7550	S	Suction - 2-1/2" left side SS, bleeder, non manifold pump		1	MTL
30-32-8050	S	Suction - 2-1/2" right side SS, bleeder, non manifold pump		1	MTL
30-40-2006	S	4" right discharge, plumbed 3", non manifold pump		1	MTL
		4" Storz connection			
30-41-2040	S	2-1/2" RS discharge SS, bleeder, non manifold pump		1	MTL
		2.5" end cap not required with 80-99-20AA adapter			
30-41-2540	S	2-1/2" LS discharge SS, bleeder, non manifold pump		1	MTL
		2.5" end cap not required with 80-99-20AA			
		There will only be one (1) 2.5" discharge on the left side pump panel as requested	by		
		Chief Paul Shears on 06.01.2021			
30-41-25AA	U	2-1/2" LS hosebed discharge SS, bleeder, non manifold pump		1	
		There will be a 2-1/2" discharge in the left side of the hose bed at the front to a	low		
		another pre-connected hose. As requested by Chief Paul Shears on 06.01.2021			
30-42-8520	S	1-1/2" rear discharge SS, plumbed 2"		2	MTL
		Installed on each side of the walkway at the front of the hose bed - leave an			
		room so hose wrenches can be used to tighten / loosen hose couplings	the		
		pre-connected hose lines. Department to supply hose load capacity:			
		Single stack of 1.75" x 150' on left side of walkway - Color of tag to be orange			
		Single stack of 1.75" x 200' on right side of walkway - Color to be purple			
		As discussed at the pre-construction meeting of 01.07.2021 and cold	ors		
		confirmed on 10.14.2021			
30-43-1520	S	2-1/2" rear discharge SS, plumbed 2-1/2", bleeder		1	MTL
		*** Right Side			
		2.5" end cap not required with 80-99-20AA adapter			
		Color of tag to be yellow as advised by Chief Paul Shears on 10.14.2021			
30-44-6520	S	Piping for monitor SS, plumbed 3", bleeder		1	MTL
		Piping will be center side to side and front to rear in dunnage area over p	ump		
		house.			
		Make and model of Monitor - Akron 3423 (ref 80-16-0500) and the top of			
		monitor piping will be mounted flush with the top of the pump house to			
		360-degree rotation of the monitor. As discussed at the pre-construct			
		meeting of 01.07.2021			
		· ·			
30-51-0400	S	Pump shift - PTO Pump and Roll		1	MTL
		***Includes "Pump Engaged" indicator lights on chassis instrument panel and on	the		

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PART NO	S	DESCRIPTION	QTY	ID
		pump panel		
		***Includes "Throttle Ready" indicator light on Pump operating panel	_	
		Includes indicator light showing "OK TO PUMP" when transmission is in neutral, I	bark	
		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		
		not in neutral, the park brake is not set, and the PTO control is energized. The rem	iote	
		electronic throttle will not be energized in this mode.		
30-51-1500	c	Power shift PTO - Automatic transmission	4	MTL
30-31-1300	S		1	WIL
		Left side PTO opening for RSD-J gearbox		
30-51-1501	S	> PTO driveshaft	1	MTL
30-31-1301	3	ENG. NOTE:	,	IVIIL
		Quantity of 2 for pumps mounted on 4 door cabs due to length		
		Quantity of 2 for pumps mounted on 4 door cabs due to length		
30-51-6800	S	FRC InControl Governor/Throttle engine display with throttle knob	1	MTL
30-51-7005	Ü	Suction Side Relief V/V. non manifold pump	2	
00-01-7000	U	One for the left MIV and one for the Right MIV	_	
		One for the left line und one for the ragin line		
30-51-7716		Trident Automatic Air Primer 3 barrel 3 location	1	MTL
		Location #1 - Main pump	·	
		Location #2 - Left side MIV		
		Location #3 - Right side MIV		
		200dion no ragin oldo init		
30-51-7720	S	Additional air tank for air primer system with chassis	1	MTL
	_	An additional air tank is provided to improve air primer capacity	_	
		· · · · · · · · · · · · · · · · · · ·		
30-51-8100		Heat exchanger included with chassis	1	MTL
30-51-9000		Thermal Relief Valve	1	MTL
		Discharge plumbed to below frame level to atmosphere.		
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	1	MTL
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-6000		Tank capacity 1400 Imperial Gallons	1	MTL
40-21-1000		4" tank to pump connection	1	MTL
40-22-0500		2" tank fill connection	1	MTL
40-23-0500	S	3/4" water level gauge connection	1	MTL
40-23-1050	S	4" Fireman's Friend connection - offset to right	1	MTL
40-23-1060	S	10" Newton dump connection - offset to left	1	MTL
40-30-0500	S	Sump drain valve (3" gate valve) with linkage	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-3500		10" rear Newton dump, stainless steel	1	MTL
		Offset left of center in back compartment		
40.04.0555		No. do at an artista and took at the		
40-31-3600		Newton dump - stainless steel 36" telechute	1	
40-31-5500		Electric operator for Newton dump, top mount	1	MTL
		Switch located on back of body over the left side tail light module.		
40 24 2222	_	411 Ctown year fill Financoula Friend bloods		147
40-31-9000	S	4" Storz rear fill, Fireman's Friend, bleeder	1	MTL
		Offset right of center in back compartment - leave ample room between St		
		connection and wall of compartment for the use of hose wrenches when a management in a LDII	ien	
		connecting and disconnecting LDH.	00 io #	
		End of fitting to be as close to the inside of the rollup door to make for an exconnection	4916L	
		COMMECTION		
		ELECTRICAL	1	MTL
50 11 0200	S	Base electrical system - multiplex	1	MTL
	3	Panel to be installed in the right side front compartment to make for ear		WIL
50-11-0300		r and to be instance in the right side from Compartment to Make for eas		
3U-11-U3UU			ווםא	
50- i I-0300		access - standard location in the L1 compartment has slide out tray with ro	lled	
30- i i-U3UU			lled	

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PART NO	S		QTY	ID
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
		As required by ULC and NFPA standards		
50-11-0900	S	Rocker switch panel with master warning switch at chassis ceiling	1	MTL
		***Rocker switch assignments on chassis ceiling:		
		MASTER		
		-LIGHT BAR RED		
		-LIGHT BAR CLEAR		
		-REAR BEACONS		
		-FLASHING WARNING		
		-REAR FLOODS		
		-LS SCENE		
		-REAR SCENE		
		-RS SCENE		
		-DITCH LIGHTS		
		-LS TELE		
		-RS TELE		
50-11-1400		Federal PA300 100 watt siren	1	MTL
50-11-1620		> Siren speaker,100 watt, in front bumper		MTL
		ENG. NOTE:		
		AS124 speaker 1570860		
		Standard Metalfab protective grill to be supplied and installed		
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-5812	U	Federal LPX53DS-NFPA	1	
		SOPT 798		
		White light pods will be used as flashers, controlled by switch 50-11-0900 an	nd	
		interlocked with park brake as approved by Chief Paul Shears.		
///-				
50-11-6615	S	5 5	1	MTL
		long		
		SOPT #823		
		TIR3 super LED lights - 30.45" long		
		The TAMO2 traffic has and TACTLE controller were added at the are construction		
		The TAM83 traffic bar and TACTL5 controller were added at the pre-construction meeting of 01.07.2021. The controller will be installed on the console 20-31-7500		
		The traffic bar will be recessed mount in the intermediate step area under the		
		hose bed due to space.	е	
		nose bed due to space.		
50-11-9010	S	< Rear beacons - Federal NVG10 LED (pr) - both red - no height restriction	1	MTL
30-11-3010	3	SOPT #1063 - truck specific	,	197 T L
		SOL 1 // 1000 - track apocinio		
50-12-5028	U	Front LED flashers (pr)-red Federal QL43	1	
50-12-5110		Rear LED flashers (pr)-red Federal QL64XF-R		MTL
		Integrated in 50-22-0800 bezel		
		•		
50-12-5218	U	Front side inter Its (pr)-red LED Federal QL43	1	
50-12-5318	Ü	Body side inter Its (pr)-red LED Federal QL43	1	
50-21-1505	U	Unity LED rear floods (pr)	1	
		Switched in cab and on light head and when transmission is placed in revers	se	
		gear.		
		These lights are not managed to shed		
		SOPT 255a		
50-21-1610	U	Parking ditch lights in rear fenders - LED w/ SS housing (pr)	1	
		Switched in cab and when transmission is placed in reverse gear.		
		These lights can be managed to shed		
		SOPT 160A		
50.04.05.15		FRO tale and in a OREOTRA I FR 401/ first I (a)	_	
50-21-2547	U	FRC telescoping SPECTRA LED 12V flood (ea)	2	
		Switched in the cab		
		Located on the front of pump house, one each side		

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PART NO	S	DESCRIPTION	QTY	ID
		These lights can be managed to shed and will be wired to the Equipment	not	
		Stored light (50-21-5550)		
		otorou light (oo 21 ooso)		
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors)	1	MTL
00-21-0100		ENG. NOTE:	•	11111
		Rollup doors only		
		Rollup doors of liy		
		Compartments over rear wheels to have a 4" round recessed LED light		
		Compartments over rear wheels to have a 4 Tourid recessed LED light		
E0 24 EE00		Dog Aignorphic light		MTL
50-21-5500		Door Ajar warning light	7	IVIIL
		Bilingual warning label in cab to read:		
		"Do Not Move Apparatus when Light is on"		
		Over driver seating position		
		Zico Access Ladder (60-31-5000) is wired to this light		
50-21-5550		Equipment rack not stowed warning light	2	MTL
		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 (50-21-254	7)	
		One (1) for Zico Ladder rack (60-41-9001) and RS Extenda light (50-21-2547)		
		, , , , , , , , , , , , , , , , , , , ,		
50-21-8001		Step lights for body steps - 4" LED	1	MTL
		Switched when park brake is set.		
		on to the paint of		
50-21-8200	U	LED Lumabar for chassis steps - 2-door chassis	1	
00-21-0200	· ·	Switched when park brake is set.	•	
		SOPT 194a		
		301 1 1344		
50-21-83AA	U	LED Lumabar for Zico access ladder and rear step surfaces	1	
30-21-03AA	U			
		Switched when park brake is set. SOPT 307b		
		SOP1 307b		
EO 04 0600		LED elegrance Its and reflectors	1	NATI
50-21-8600		LED clearance its and reflectors		MTL
50-21-8800	•	LED intermediate turn signal/clearance/reflector length >30'	1	MTL
50-22-0800	S	Federal 4 QuadraFlare LED tail/brake-turn-backup-warning module (pr)	1	MTL
		Brake, turn, backup, warning module will be mounted on the extinguisher be	es	
		(60-40-8500) so additional TecNiq warning lights will not be required.		
	_			
50-31-6010	S	Scene light boxes (pr) - painted job color	2	MTL
		Note any special requirements		
50-31-6021	U	Whelen C9SL scene lights - left side (pr)	1	
		Located in upper front and rear corner of body sides.		
		Switched in cab		
		These lights can be managed to shed.		
		ŭ j		
50-31-6022	U	Whelen C9SL scene lights - rear (pr)	1	
	_	Located in upper corners on rear of body as shown on proposal drawing.	-	
		Switched in cab and when transmission is placed in reverse gear.		
		These lights can be managed to shed		
		Those lights can be managed to shed		
50-31-6023	U	Whelen C9SL scene lights - right (pr)	1	
30-37-0023	U	Located in upper front and rear corner of body sides.		
		Switched in cab		
		These lights can be managed to shed.		
E0 04 0EE0		One and lighting (LED Lamphor)		MITI
50-31-6550		Ground lighting (LED Lumabar) - 2 door chassis	1	MTL
		Switched when park brake is set.		
50.04.05=5		Out of Park Control of the Control o		
50-31-6570		Ground lighting (LED Lumabar) - side mount body	1	MTL
		Switched when park brake is set.		
50-35-0500	S	Installation of customer supplied mobile radio	2	MTL
		Radio information list required		
		Radios were picked up 07.09.2021 and first radio is a Motorola XTL1500 T	MR_	
		The state of the s		

with mic and mounting bracket 2nd radio is a Motorola Radius SM120 with mounting bracket and mic. Power cables were shipped with radios. Frequencies for Radius SM120 are: RY freq - 151-925. TX freq 154-100 and TX-PL/DPL - 94.8 as per pic supplied 06.22.2021. See pic at Fi/Data/Jacques/Current project/West Bay Rd/Picture 50-35-0560 S VHF antenna with base - commercial chassis No special mounting or spacing requirements. To be installed behind the light bar spaced out from the other antenna. As discussed at the pre-construction meeting of 01.07.2021 50-35-0590 S Cellular/TMR entenna with base - commercial chassis No special mounting or spacing requirements. To be installed behind the light bar spaced out from the other antenna. As discussed at the pre-construction meeting of 01.07.2021 50-35-06AA U Magnetic Mic Mount SOPT in file. Location TBD at the Pre-construction meeting 50-99-10AA U Hose bed lights - LED Lumabars Switched when park brake is set. 50-99-25AA U LED lighting for walkway in center of hose bed 3 x 20° Lumabars Switched when park brake is set. 60-10-1400 Single axie extruded aluminum body 60-10-15AA U 1" drop on lower edge of compartment floor - sweep out type 1 MTL 60-10-1400 No "beavertail" rear step supports 60-10-4100 No "beavertail" rear step supports 60-10-4500 Aluminum tread plate fender surround - single axie 60-10-4500 Aluminum tread plate fender surround - single axie 60-10-4500 SopTi236 60-10-5400 > Diamondback pumphouse steps 1 MTL 60-10-5400 Picture and the prescription of the prescriptio	05/24/2022				Page 8
mounting bracket and mic. Power cables were shipped with radios. RX freq - 151-925, TX freq 154.100 and TX-PL/DPL - 94.8 as per pic supplied 06.22.2021. See pic at F/Dtatal.Acques/Current project/West Bay Rd/Picture 50-35-0560 S VHF antenna with base - commercial chassis No special mounting or spacing requirements. To be installed behind the light bar spaced out from the other antenna. As discussed at the pre-construction meeting of 01.07.2021 50-35-0590 S Collustr/IMR antenna with base - commercial chassis No special mounting or spacing requirements. To be installed behind the light bar spaced out from the other antenna. As discussed at the pre-construction meeting of 01.07.2021 50-35-0504 U Magnetic Mic Mount SOPT in file. Location TBD at the Pre-construction meeting 50-99-10AA U Hose bed lights - LED Lumabars Switched when park brake is set. 50-99-25AA U LED lighting for walkway in center of hose bed 3 x 20° Lumbars Switched when park brake is set. 50-99-25AA U Single axle extruded aluminum body 1 MTL MTL 400 on lower edge of compartment floor - sweep out type 1 MTL 400 on lower edge of compartment floor - sweep out type 5 Nortical Mainimum read plate fonder surround - single axle integral aluminum medapts for surround - single axle integral aluminum medapts for surround - single axle integral aluminum medapts fonder surround - single axle integral aluminum from the single fonder surround - singl	PART NO	S	DESCRIPTION	QTY	ID
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Solution			Aluminum tread plate fender surround - single axle	-	
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Solution					
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60-11-1300 > Rear right side compartments intermediate height 1 MTL					
			, ,		
	60-11-1300		> Rear right side compartments intermediate height	1	MTL
ENG. NUTE:			ENG. NOTE:	-	
Specify critical dimensions in shop note					
			'		

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PART NO	S	DESCRIPTION	QTY	ID
60-11-1900		> Low side compartment (up to 18") each ENG. NOTE:	2	MTL
		Specify critical dimensions in shop note		
		Specify type of door		
		Specify flip up or drop down		
		Specify which side of body		
		Flip up doors		
		i iip up doors		
60-11-3200		> Full Height Rear compartment	1	MTL
		ENG. NOTE:		
		Specify critical dimensions in shop note		
60-11-4535	U	Flush mount aluminum door - single with "D" handle	2	
00 11 4000		Doors to be flip up	_	
60-11-5510		Rollup door - intermediate height	4	MTL
		Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pir	v ch	
		point	IGI	
		Form.		
60-11-5520		Rollup door - full height	1	MTL
		Natural aluminum finish	, ob	
		Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pir point	icn	
		point		
60-11-5530	S	Rollup door - to enclose pump panel	1	MTL
		Natural aluminum finish		
		Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pir	ich	
		point		
60-11-5660	U	Amdor Pull Strap - Flex HD	1	
		There will be an Amdor FLEX HD strap supplied and installed on the pump p	anel	
		rollup door (60-11-5530).		
60-31-4100		Extruded aluminum handrails	1	MTL
00-31-4100		Minimum 2" clearance from handrail to any surface		IVIIL
		William 2 distriction manufacture any surface		
60-31-5000	S	Zico access Ladder at rear of unit	1	MTL
		Minimum 7" clearance between rung and any obstruction	d	
		Additional TecNiq turn signal / brake light in rear step rub rail will not be req due to the addition of the extinguisher tail light box tube.	uirea	
		Switch for warning light in cab in indicate when ladder is not in stowed posit	on.	
		·		
60-31-5600	S	Steps and grab handles at front of body next to pump panel	1	MTL
		Maximum height between steps is 18" RS only due to roll up door on LS		
		Two only required		
		o oy .oquou		
60-31-6500	S	Compartment matting-Interlocking Tile	1	MTL
60-31-82AA	U	Adjustable vertical dividers on pull out tray	1	
		The pull out tray in the L1 compartment will be partitioned to hold the following 4 rolls of 50' x 1.75"	ıg:	
		2 rolls of 50' x 2.5"		
		1 roll of 25' x 4"		
		Seven (7) slots total - rest of space will be open storage.	41	
		There will be a fixed shelf (60-31-9600) installed above the rear portion of dividers that will be 12" deep to hold loose fittings. It will pull out with the tra		
		hoses. As discussed at the pre-construction meeting of 01.07.2021	anu	
60-31-8800	S	> Sliding tray (ea) - 600 pound capacity - 70% extension	4	MTL
		ENG. NOTE: Specify location		
		opeony location		
		***Hardware requires 3-1/2" of compartment height		
		White reflective stripe is applied on the exposed edge for visibility when	the	

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PART NO	S	DESCRIPTION	QTY	ID
		compartment door is open		
		Locations are at floor level in the following compartments:		
		Left side front compartment		
		Left side rear compartment		
		Right side front compartment		
		Right side rear compartment		
60 04 0600	•	Adimatable shalf (sa)		1471
60-31-9600	S	> Adjustable shelf (ea)	8	MTL
		ENG. NOTE: Specify location		
		Specify location		
		Reflective stripe is applied on the exposed edge for visibility when	tho	
		compartment door is open	LIIC	
		White reflective stripe is applied on the exposed edge for visibility when	the	
		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 full depth		
		5. R1 shallow depth		
		6. R3 full depth		
		7. R3 full depth		
		8. L1 shallow depth		
		Change Order E - The shelves in L1 and R1 will be one (1) each shallow and	one	
		(1) each full depth due to the available space.		
60-32-3560	S	Three adjustable, 2 fixed hose divider (each)	1	MTL
		Hand hold required in end		
		Section for dual 2.5" / 1.75" / 4" / suction hoses and a walkway		
00 00 7500	_	Here he dead of the con-		
60-32-7500	S	Hose bed - aluminum		MTL
		Layout from left to right - dual lays of 2.5", 1.75" attack line, 18" wide walky	/ay,	
		1.75" attack line, 400' of hi-vol		
		Department to specify hose load to be carried: 2.5" hose: 400'		
		1.75" Attack line: 650'		
		4" hose: 400'		
		As discussed at the pre-construction meeting of 01.07.2021		
		7.6 discussed at the pro-content action mostling of the right 2021		
60-33-0000		Paint exterior - Imron Elite	1	MTL
		*** Paint code and colour yellow to match cab	_	
		,		
60-33-0200	S	Undercoat vehicle with KROWN rust protection	1	MTL
		Metalfab will not use alternate product(s) like Rust Check or eletronic r	ust	
		control modules which would deviate from the Metalfab standard warranty.		
60-33-0600		Chassis wheels not painted	1	MTL
		Aluminum wheels from chassis OEM		
00 00 4000		Delutarios and about his also calcus		N 4-T-1
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1500	•	Buffed finish compartment interior	1	MTL
60-33-2200	S	Lettering - 80 letters up to 3" tall - 3 colour	1	MTL
		*** Vinyl letters, Fire Department to provide details on location and text.		
		Door decals as per sample picture provided Keep back 150 Metre on rear door in white reflective and black outline		
		Emergency 911 on rear side doors in white reflective and black outline		
		Truck # 3 on each side of the hood		
		Refer to approval drawing that was approved by Chief Paul Shears by e-mai	On	
		02.22.2022	0	
60-33-3000		Reflective stripe - 4" white	1	MTL
		50% of perimeter each side and 25% of perimeter front.		
		3M Scotchlite material		
60-33-3310		Reflective stripe - red and yellow chevron at rear	1	MTL
		Minimum 50% of rear vertical surface.		

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PART NO	S	DESCRIPTION	QT'	Y	ID
		Printed 3M Scotchlite material			
60-33-3500		Tarp over hose bed - black		1	MTL
		The tarp will be in two (2) sections and the walkway (60-33-3580) will be	left		
		uncovered			
60-33-3580	U	Non slip overlay on top walkway in hose bed - 18" wide		1	
		There will be an 18" wide non-slip surface (embossed aluminum treadpl	ate)		
		installed in the walkway to meet ULC.			
00 00 4700		No consider a management of the P			
60-33-4700	•	No crosslay preconnects on vehicle E		1	MTL
60-40-1000	S	3" Hose tray - top mount (ea)	04)	2	MTL
		There will be two (2) 3" suction hose trays mounted to the ladder rack (60-41-90	U1)		
		as requested at the pre-construction meeting of 01.07.2021			
00 40 5000	•	All Harris Committee (Control		_	
60-40-5000	S	6" Hose tray - top mount (ea)		7	MTL
		Attached to the PTS (60-41-6001) to carry the 6" x 10' suction hose 80-11-50	00.		
		As discussed at the pre-construction meeting of 01.07.2021			
00 10 5500					
60-40-5500		Suction hose tube (each) with door		2	MTL
		To be completely enclosed and carry 13' suction hoses (ref 80-11-5020)			
		Door ajar switch required.			
00 40 0500	•	S. T. T. P. L. Charles Control of Lands A.		_	
60-40-8500	S	> Tail light box Fire Extinguisher tubes (pr)		7	MTL
		ENG. NOTE:			
		Specify size/dimensions of Fire extinguishers to be stored			
		There will be a using a system wish on heaves assembled and installed an the group house			
		There will be a pair of extinguisher boxes supplied and installed on the rear bum			
		for the customer supplied ABC and CO2 extinguishers. As requested by Chief F	auı		
		Shears by phone on 08.17.2021			
60 44 4045		Dika Dala tuha in auatian hasa tuha		2	NATI
60-41-1015		Pike Pole tube in suction hose tube			MTL
		Tubes are 2" ID and the length of the suction hose tube.			
60 44 4500	_	Attic leaden tube with near deer			MITI
60-41-1500	S	Attic ladder tube with rear door		1	MTL
		Right side, rear access, to include a door ajar switch (50-21-5500)			
		For a customer supplied 10' attic ladder. Dimensions: 11' 6" x 6" tall x 4" wide See pic: F:/Data/Jacques/Current Project/West Bay Rd/Picture	7		
		There will be a 2" tube on the side for a customer supplied pry bar to slid	o in		
		The bar is a standard pry bar - as discussed at the pre-construction meeting	y Oi		
		01.07.2021			
60-41-6001	S	> Zico hydraulic portable tank rack		1	MTL
00-41-0001	3	ENG. NOTE:		-	IVI I L
		Specify mounting location desired.			
		If Portable tank is customer supplied, specify overall dimensions when the tank	ic in		
		stored position	3 111		
		οιοτοά μοσιμοτί			
		Left side.			
		To be wired so only operable when park brake is engaged and compartn	ent		
		door over rear wheels is closed.			
		Flashing lights and reflective tape required at front and rear to indicate	anv		
		areas that protrude beyond the body.	y		
		Will carry a 2000 Imperial Gallon Porta tank (80-15-1000) and a 6" suction he	ose		
		tray (60-40-5000) as added at the pre-construction meeting of 01.07.2021			
		and the second as an area at the big selled assign informing of a list 12021			
60-41-6010	S	ZICO PTS switched on left side pump operators panel		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	S	> Zico hydraulic Ladder Access system		1	MTL
		ENG. NOTE:			
		Specify mounting location desired.			
		If ladder(s) are customer supplied, specify overall length and width, width between	een		
		side rails, rung spacing; also specify ladder brand and model			
		sias rails, rang spasing, also specify ladder brails and moder			

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PART NO	S	DESCRIPTION	QTY	ID
		Right side.	a m f	
		To be wired so only operable when park brake is engaged and compartm door over rear wheels is closed.	ent	
		Flashing lights and reflective tape required at front and rear to indicate	anv	
		areas that protrude beyond the body.	,	
		For storage of the 24' two section extension ladder 80-14-0500 and the 14' re		
		ladder 80-14-5500 and two (2) 3" suction hoses and tray as added at	ne	
		pre-construction meeting of 01.07.2021.		
60-41-9010	S	ZICO LAS switched on the right side pump panel	1	MTL
00-41-3010	-	INSTRUMENTATION	1	
70-11-0000		Warning Label on Pump Operator's Panel	1	
70-11-0500	S	Side mount instrument panel	1	MTL
		No gauge or visual display can be higher than 84" above the operator's standing	ıg	
		position		
		Midpoint of any control cannot be higher than 72" above the operator's standing position	ıg	
		position		
70-11-1500	S	Stainless steel instrument panels	1	MTL
		No gauge or visual display can be higher than 84" above the operator's standing	ıg	
		position		
		Midpoint of any control cannot be higher than 72" above the operator's standing	ng	
		position		
70-11-3200	S	Colour coded tags	1	MTL
		The following discharges will have special colors:	·	
		30-42-8520 - 1.5" rear discharges. 150' lay will be orange and 200' lay will	be	
		purple		
		30-43-1520 - 2.5" rear discharge will be yellow		
		As requested by Chief Paul Shears on 10.14.2021		
70-11-4500	S	Diamondback grip type panel hood step right side	1	MTL
70-11-5100	S	Open storage at top of pump house	1	
		Drain holes required (plumbed down to below frame level)		
		Plastic interlocking tile required on floor.		
		Lighting as it is a storage compartment		
70-11-5500	S	Right side tread plate pump access door	1	MTL
	_	No opening dimension less than 18"		
70-11-7500	S	Heat pan-aluminum	-	MTL
70-11-8000	S	Heater in pump compartment Switch located on left side pump operator's panel	1	MTL
		Switch located on left side pullip operator's paller		
70-11-8200	U	Rubber seal around suction and discharge openings on panel	1	1
		SOPT 483		
	_			
70-20-0500	S	4-1/2" compound gauge - dual face 0-400	2	MTL
		To be within 8" of each other - edge to edge		
70-20-2130	U	2-1/2" pressure gauge - dual face 0-400	8	1
		Gauge to be no more than 6" from edge of the gauge to the center of the cont	rol.	
= 0.60.0=00				
70-20-2500	S	Primer control - Trident for main pump	1	
70-20-2501 70-20-3300	S S	Additional Primer control - Trident for LS and RS MIV pre-prime FRC InControl Governor Control	2	
70-20-3300	3	Throttle can be no lower than 42" and no higher than 72" from operator's standing	_	1V1 1 L
		position.	J	
70-20-3500		Electric water level gauge on pump panel, Class One	1	
70-20-3611	U	Remote PSTANK2 water level indicators each side, rear with driver Interlock with park brake so powered only when the park brake is set.	1	
		interiock with park brake so powered only when the park brake is set.		
70-20-6500		Test gauge panel	1	MTL
		Mount below the compound gauges for proper draining		

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PART NO	S	DESCRIPTION	QTY		ID
70-20-7500 70-21-2100	S	Heat exchanger control valve > PTO Hourmeter			MTL MTL
70-21-2100	3	ENG. NOTE:		' '	VIIL
		Specify location in shop note			
		To be mounted on chassis console 20-31-7500			
70-21-5500		Panel readout for Battery Conditioner		1	MTL
70 27 0000		Left side cab step area			
90 44 4000		ACCESSORIES			MTL <i>MTL</i>
80-11-1000	S	3" x 10' lightweight suction hose (ea) There will be two (2) 3" suction hoses mounted to the ladder rack (60-41-90		2 '	VIIL
		as requested at the pre-construction meeting of 01.07.2021	• . ,		
		Department to supply hose thread: 3.234x5 as advised by Chief Paul Shears	by		
		text on 08.24.2021			
80-11-5000	S	6" x 10' lightweight suction hose (ea)		1	MTL
00-11-0000	J	Tray mounted on PTS 60-41-6001 as discussed at the pre-construction mee		' '	
		of 01.07.2021			
00 11 5000					
80-11-5020	U	6" x 13' suction hose Tube mounted		2	
		SOPT 149-13'			
80-13-1000	S	Hose wrenches (double) with holder		2 1	MTL
		Customer specified mounting location to be on the right side pump panel back of body - as discussed at the pre-construction meeting of 01.07.2021	and		
		back of body - as discussed at the pre-construction meeting of 01.07.2021			
80-13-1100	S	Hose wrenches (triple) with holder		1 1	MTL
		Customer specified mounting location to be on the left side pump panel	- as		
		discussed at the pre-construction meeting of 01.07.2021			
80-14-0500		24' 2 section extension ladder PEL 24		1	MTL
		Stored on LAS			
//					
80-14-5500		14' aluminum roof ladder PRL-14 Stored on LAS		1 1	MTL
		Stored on LAS			
80-15-1000	S	2000 I gallon portable tank - Husky		1 1	MTL
		There will be a 2000 Imperial Gallon Husky porta tank with yellow liner stored in	the		
		PTS (60-41-6001) as requested at the pre-construction meeting of 01.07.2021			
80-16-0500		Akron 3423 Portable/deck monitor with stacked tips		1	MTL
		Order portable base 2-1/2" swivels with Customer thread.			
		Order 2-1/2" male and female threads on the deck gun and accessories w	ith		
		Customer thread.			
		Deck monitor direct mount will be installed on monitor piping 30-44-6520. Ground base will be shipped loose (not mounted)			
		,			
80-19-0500	_	Large folding wheel chock - aluminum (ea) not mounted			MTL
80-19-0600	S	> Horizontal bracket for folding wheel chock (ea) ENG. NOTE:		2 1	MTL
		Specify location, otherwise ship loose			
		Locate and mount under shelf in the L3 compartment as requested by Chief	Paul		
		Shears			
80-99-06AA	U	TFT AJ8NX-NX 6" FNH x 6" MNH elbow		2	
		There will be an elbow installed on the left and right 6" suction as discussed at	the		
		pre-construction meeting of 01.07.2021			
		Leave adequate room so these can be left installed and not be over width - draw and dimensions of the elbow are in SOPT 1162 file (8.83" OA)	ng		
		The fitting must not hit the door edges on the pump panel door or the right side from	nt of		
		the body			
		P/N 1501168			

05/24/2022 PART NO	S	DESCRIPTION	QTY	Page 14
80-99-20AA	U	2.5" x 1.5" reducing caps with chrome plated cap	4	
		SOPT 791 These will be installed on the 2-1/2" discharges - left side, right side and on	rear	
		right side of body. The fourth will be shipped loose with the completed ur discussed with Chief Paul Shears by phone on 06.01.2021	it as	
80-99-25AA	U	4" Storz to 2.5" male adapter with end cap	1	
		SOPT 1089 This fitting will be shipped loose		
		This itting this so employ leads		