



# Shop Order

South-West Oxford Fire and Emergency Services  
 312915 Dereham line  
 Mount Elgin, ON N0J 1N0

**Exp. Date:** 05/28/2020  
**Quote No:** 10031-0027  
**Job/Order No:** 21539  
**BODY:** 00-10-31 Metalfab Tanker - ULC 05/13

11/19/2021

Page 1

PART NO	S	DESCRIPTION	QTY	ID
		<b>== Metalfab Tanker - ULC 05/13 - 0.000 ==</b>	<b>1</b>	<b>MTL</b>
	S	<b>Change Order I</b>	<b>1</b>	<b>MTL</b>
<b>00-05-0021</b>		<b>Dealer - Carrier Centers Emergency Vehicles - Todd</b>	<b>1</b>	<b>MTL</b>
00-10-1000		Metalfab Tanker	1	MTL
00-20-1000		Company Profile	1	MTL
<b>00-20-1500</b>	S	<b>Standard Body Warranty - 1 year Bumper to Bumper</b> Included is provision for two service trips to South-West Oxford by CCEV.	<b>1</b>	<b>MTL</b>
<b>00-20-1551</b>	S	<b>Extended Paint and Corrosion Warranty - Non Pro Rated</b> All warranty is FOB Metalfab's factory at 847 Central Street, Centreville, NB or the nearest Metalfab approved warranty center. ***Krown rust proofing has to be maintained for this warranty to remain in effect***	<b>1</b>	<b>MTL</b>
<b>00-20-1600</b>		<b>Waterous Pump Warranty - 5 years</b>	<b>1</b>	<b>MTL</b>
00-20-1800		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
<b>00-20-2800</b>	S	<b>10% Bid bond required</b>	<b>1</b>	<b>MTL</b>
00-20-3500		Certification for Fusion Welding of Aluminum	1	MTL
<b>00-20-4000</b>	S	<b>Quality System registered to ISO 9001:2015</b>	<b>1</b>	<b>MTL</b>
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		<b>GENERAL INFORMATION</b>	<b>1</b>	<b>MTL</b>
10-11-0000		Intent E	1	MTL
<b>10-11-0110</b>		<b>Vehicle data recorder included with chassis</b>	<b>1</b>	<b>MTL</b>
<b>10-11-1101</b>	S	<b>ULC S515-13 and NFPA 1901-2016 Compliance E</b>	<b>1</b>	<b>MTL</b>
10-11-1600		> ULC Testing - Tanker - Imperial units of measure	1	MTL
		<b>ENG. NOTE:</b> 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
<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
<b>10-11-2600</b>	S	<b>Preconstruction Meeting - by CCEV</b>	<b>1</b>	<b>MTL</b>
<b>10-11-3000</b>		<b>Manuals - two copies</b> ***Two copies of manuals are required. One hard copy and one digital copy of Metalfab standard manuals.	<b>1</b>	<b>MTL</b>
<b>10-11-3600</b>	S	<b>&gt; Delivery - FOB Fire Department - by CCEV</b> <b>ENG. NOTE:</b> Note in the shop note if more than 4 hours of training is required	<b>1</b>	<b>MTL</b>
<b>10-11-37AA</b>	U	<b>Orientation video</b> There will be an orientation video supplied with the completed unit. As requested by Todd Finnie by e-mail on 05.25.2021	<b>1</b>	
<b>10-11-4200</b>	S	<b>Payment Terms - Chassis and Body COD upon pickup at Metalfab</b>	<b>1</b>	<b>MTL</b>

PART NO	S	DESCRIPTION	QTY	ID
10-20-1400	S	> <b>Hose capacity exceeding ULC/NFPA requirements</b> <b>ENG. NOTE:</b> Specify the type of hose and quantity of hose to be carried on the vehicle  <b>The hose bed shall accommodate the following hose loads:</b> <b>300 meters (1000') of 100 mm (4") hose</b> <b>Will add 1380 lbs to the standard ULC weights</b> <b>As advised by Todd Finnie by e-mail on 07.20.2021</b>	1	MTL
10-20-2200		Equipment carrying capacity - standard ULC Tanker <b>CHASSIS INFORMATION</b>	1	MTL
20-11-1000	S	<b>Chassis - Freightliner M2 112 two door</b> 47,000 lb GVWR 16,000 lb Front Axle 31,000 lb Rear Axle 218" Wheelbase 151.97" Cab to Axle Cummins L9 370 HP @ 2000 RPM, 2100 governed RPM 1250 lb-ft torque @1400 RPM Allison 3000 EVS Automatic transmission w/PTO provision LH side and RH top Jacobs C-Brake - activates stop lamps 275 Amp Alternator 189 liter fuel tank - LH 60 MPH top road speed ESC, VDR and seat belt display Hood mounted air horns with shields Aluminum polished wheels Paint - single tone - Candy Apple Red L0608EY Spray out required and sent for Customer approval - signoff received 06.23.2020	1	MTL
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700	S	<b>Chassis Motor Vehicle Inspection required - by CCEV</b>	1	MTL
20-21-0500		<b>Fluid capacity plate</b>	1	MTL
20-21-0600		<b>Pumping test plate</b>	1	MTL
20-21-1000		<b>Maximum riders sign - 2 persons</b>	1	MTL
20-21-1500		<b>Seat belt warning labels - 2 door chassis</b>	1	MTL
20-21-1520		<b>Helmet warning label - do not wear helmet</b>	1	MTL
20-21-1560		<b>LED Tire Pressure Indicators - Single Axle</b> Shipped loose for dealer or end user to install.	1	MTL
20-21-1600		<b>Apparatus Information Label</b> 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		Non removable key	1	MTL
20-21-2500		Shifter lock not required E	1	MTL
20-21-3500		Rear step warning label	1	MTL
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
20-31-0500		<b>Alum tread fuel tank trim, Conv - 2 door</b> Vertical trim only, OEM cab steps remain	1	MTL
20-31-1900	S	<b>Chassis cab painted by chassis OEM</b>	1	MTL
20-31-4700		> <b>Extend front bumper, gravshld with hosewell, cover, and lift and turn latch</b> <b>ENG. NOTE:</b> Note location of preconnect elbow Note special capacity requirements_____	1	MTL
		<b>***Bumper to be extended approximately 20"-26" ahead of cab. There will be an Elkhart Turret (30-44-1041) mounted on the right side and trashline (30-44-1020) mounted on the right side.</b> <b>Hose well to have capacity for 150' x 1-3/4" hose and nozzle</b> <b>Treadplate cover with notch so hose can stay preconnected complete with lift</b>		

PART NO	S	DESCRIPTION	QTY	ID
		and turn latch and gas strut. Area behind bumper opening will have a black reflective stripe - not painted as per the Metalfab response to the tender.		
20-31-7500	S	<b>Console in cab</b> Install switch panel (50-11-0900), siren (50-11-14AA), Rear traffic bar controller (50-11-6610), PTO power shift (30-51-1500), PTO hour meter (70-21-2100), front monitor joystick control (30-44-1041), and tank to pump electric control (30-21-95AA) in console. There will be a radio slot with a Jotto Desk plate for customer supplied and installed radio. There will be an air horn push button installed on the right side of the console (20-51-90BB) as requested by Todd Finnie by e-mail on 08.17.2020 Storage area with hinged cover and lift and turn latch provided at rear of console. Gray Zolatone finish	1	MTL
20-41-0900		<b>Auxiliary braking system disabled when pumping</b>	1	MTL
20-41-1100		Transmission programming - Allison WT ***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.	1	MTL
20-41-1500		Extend exhaust pipe - RS front of rear wheels E 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.	1	MTL
20-41-1900		Battery boost terminals with chassis E	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 *** Flat bar tow hooks under rear step (2)	1	MTL
20-51-0710		<b>Master Battery Disconnect included with Freightliner chassis</b>	1	MTL
20-51-2700		<b>Back up alarm - self adjusting E</b> To replace the 97 db back up alarm that is included with the chassis.	1	MTL
20-51-3100	S	<b>Air inlet not requested</b> The air inlet will not be required due to the air compressor included with the Pump Plus 1200 - as requested from Todd Finnie by e-mail on 08.17.2020	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6200	S	> <b>120 volt 20 A shore line connection</b> <b>ENG. NOTE:</b> Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet  <b>Standard 5-20R duplex receptacle, not fused</b> <b>Locations as follows;</b> <b>Receptacle #1 - inside cab, minimum 12" from floor level for battery condition to plug into.</b> <b>Receptacle #2 - #3 - Right side front compartment high on front wall</b> <b>Receptacle #4 - #5 - Left side front compartment high on front wall</b> <b>As requested by Todd Finnie by e-mail on 08.17.2020</b>	5	MTL
20-51-6500	U	<b>Price Adjustment</b>	1	
20-51-6501	S	<b>Special Battery Charger - Kussmaul Pump Plus 1200</b> There will be a Kussmaul Pump Plus 1200 system installed on the unit. The charger will be located behind seat/console, the compressor will be inside the pump house and there will be a Super Auto Eject for 120-v - 20 A with sealed enclosure installed in the left side chassis step area - minimum 24" from grade. As requested by Todd Finnie by e-mail on 08.17.2020	1	MTL
20-51-7101	S	<b>Electric System Management - VMUX</b>	1	MTL
20-51-7500	U	<b>Price Adjustment</b>	1	
20-51-8510	S	<b>Engine compartment light LED</b> Switched when park brake is set.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-51-9001	S	<b>Air horns included w/chassis</b> Complete with right hand foot switch which will be removed when the chassis arrives and replaced with a push button on the officer side console (20-51-90BB) and rocker switch on dash to switch between air horn and electric horn (all included with chassis)	1	MTL
20-51-90BB	U	<b>Push Button on officer side console</b> Metalfab will remove the right hand foot switch from the chassis OEM and will install a push button on the right side of the console (20-31-7500). As requested by Todd Finnie by e-mail on 08.17.2020	1	
20-52-3500		> <b>Chassis steering wheel lined up by Metalfab E</b> <b>ENG. NOTE:</b> Freightliner, Sterling, and Spartan only	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
20-90-1810	U	<b>Extend air tank drain/moisture ejectors to rubrail and tag</b>	1	
20-99-05AA	U	<b>40 Amp power &amp; ground stud in electrical center</b> A 40 amp battery direct power and ground stud shall be provided and installed in the electrical distribution panel for Customer use. The stud shall be size #10 and protected with a 40 amp circuit breaker. SOPT#1030 Department to advise preferred mounting location - body electrical panel as advised by Todd Finnie by e-mail on 08.17.2020	1	
20-99-06AA	U	<b>Air horn control on pump panel</b> There will be a air horn control on the pump panel to match M17-19401. It will be labelled "Air Horn"	1	
		<b>PUMP AND PLUMBING</b>		
30-11-3002	S	> <b>Waterous CXVPA - 840 IGPM - PTO driven</b> <b>ENG. NOTE:</b> Use LS PTO	1	MTL
30-15-0304		<b>Plumbing - non manifold pump SM SS E</b>	1	MTL
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1001		Valve brand not specified E	1	MTL
30-20-1620		<b>Piping stainless steel - non manifold Pumper</b>	1	MTL
30-20-1700	S	<b>1-1/2" thread specifications - NPSH</b>	1	MTL
30-20-1800	S	<b>2-1/2" thread specifications - CSA</b>	1	MTL
30-20-2000		<b>Piping hydrostatic test</b>	1	MTL
30-20-2510		<b>Anodes in suction and discharge piping - non manifold pump</b> Install one anode on discharge side of pump, one anode on suction side of pump - do not use teflon tape or thread sealant. Paint flange silver and mask brass anode before painting for visibility.	1	MTL
30-21-95AA	U	<b>Elkhart tank to pump with electric control on panel and in cab, SS, 4"</b> SOPT#1084	1	
30-22-0520		<b>Tank Fill valve 2" SS</b>	1	MTL
30-31-4020	S	<b>Suction - 6" gated each side SS non manifold pump 6" header</b> Fitting to be as close to the pump panel as possible (1" from the panel) to allow the department to install accessories after delivery. As requested by Todd Finnie by e-mail on 08.17.2020	1	MTL
30-31-7110		> <b>Waterous master intake suction valve - handwheel control</b> <b>ENG. NOTE:</b> Not available for top mount panels Note location in Shop Note  <b>Suction to be gated is 6" left and right side suction.</b>	2	MTL
30-32-8050		<b>Suction - 2-1/2" right side SS, bleeder, non manifold pump</b>	1	MTL
30-40-3015	S	<b>4" right discharge SS, plumbed 4", bleeder, non manifold pump</b> 4" Storz connection with manual handwheel control on left side pump panel. Note: M17-19401 had a standard pull control because the plumbing had a 3"	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		<b>Slo-Close valve.</b>		
30-41-2040	S	<b>2-1/2" RS discharge SS, bleeder, non manifold pump</b> There will be a 2.5" discharge on the right side pump panel as requested by Todd Finnie by e-mail on 08.17.2020	1	MTL
30-41-2540	S	<b>2-1/2" LS discharge SS, bleeder, non manifold pump</b> There will be a 2.5" discharge on the left side pump panel as requested by Todd Finnie by e-mail on 08.17.2020	1	MTL
30-43-1520	U	<b>Price Adjustment</b>	1	
30-44-0520	S	<b>1-1/2" crosslay (each) SS, 2" valve, bleeder</b> Capacity for 60 metres (200') of 1-3/4" hose and nozzle. Equipped with stainless steel rollers on each end for easier hose removal. Bleeder valve provided on pump panel. As requested by Todd Finnie by e-mail on 08.17.2020	1	MTL
30-44-1020	S	<b>&gt; 1-1/2" front trash line SS, plumbed 2", top chrome swivel elbow - left side</b> <b>ENG. NOTE:</b> Requires extended front bumper, gravelshield  Capacity for 45 metres (150') of 1-3/4" hose and nozzle in the hose well. The elbow will be on the top left side of the bumper extension	1	MTL
30-44-1041	U	<b>Elkhart Sidewinder EXM remote monitor on front bumper</b> There shall be an Elkhart Sidewinder EXM turret gun installed in the front bumper. This will be able to be controlled from the cab of the apparatus by a joystick during pump and roll operations and the joystick will be mounted on the center console (20-31-7500). Bleeder(s) and/or auto drains are to be plumbed in low spots for complete drainage. Components are as follows; Elkhart 7101 - Sidewinder EXM 7100 monitor (1521607) Elkhart 7030 Joystick controller (1521653) Elkhart 7062 RF Antenna module (1521654) Elkhart 7150 Quick connect base (1521655) Elkhart 6000201 Nozzle (1521565) Elkhart EB25-NF01B-NF01B-E3F electric valve (1521610) Elkhart 37221000 Connector kit (1521611) Elkhart 7072 OEM Inter Module RF (1521661) Engineering to confirm above components before ordering SOPT#887	1	
30-44-3520		<b>2-1/2" crosslay SS, plumbed 2-1/2", bleeder</b> Capacity for 60 metres (200') of 2-1/2" hose and nozzle. Equipped with stainless steel rollers on each end for easier hose removal. Bleeder valve provided on pump panel. The crosslay will be mounted behind the 1.5" crosslays (30-44-0520) like M17-19401	1	MTL
30-44-6520	S	<b>Piping for front turret SS, plumbed 3", bleeder</b> Plumbed to front right side - not to block headlight (as shown on the proposal drawing) Piping will be 3" with a 2-1/2" electric valve as listed in 30-44-1041. There will be an Elkhart quick connect base model 7150 to allow the removal of the turret to open the chassis hood.	1	MTL
30-51-0400		<b>Pump shift - PTO Pump and Roll</b> ***Includes "Pump Engaged" indicator lights in cab (above driver seat position) and on the pump panel ***Includes "Throttle Ready" indicator light on Pump operating panel Includes indicator light showing "OK TO PUMP" when transmission is in neutral, park brake is set, and PTO control energized. The remote electronic throttle will be energized in this mode. Includes indicator light showing "OK TO PUMP AND ROLL" when the transmission is not in neutral, the park brake is not set, and the PTO control is energized. The remote electronic throttle will not be energized in this mode. The	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		light will be located above the driver seating position. *** Both the "OK to Pump" and "OK to Pump and Roll" lights will be located above the driver seating position beside the door ajar warning light (50-21-5600)		
30-51-1500		<b>Power shift PTO - Automatic transmission</b>	1	MTL
30-51-1501		> <b>PTO driveshaft E</b>	1	MTL
		ENG. NOTE: Quantity of 2 for pumps mounted on 4 door cabs due to length		
		The shaft will be a two (2) piece unit with hanger bearing		
30-51-6800	S	<b>FRC InControl Governor/Throttle engine display with throttle knob - KPa</b> Pre-set settings to be 1100 RPM or 690 KPa Customer advised that the pressure setting is to be KPa. As requested by Todd Finnie by e-mail on 08.17.2020	1	MTL
30-51-7002		<b>Suction side relief V/V, non manifold pump</b> One for the left side 6" MIV One for the right side 6" MIV	2	MTL
30-51-7500	S	<b>Primer electric vane type 12V with oil tank Waterous</b> Indicator light on panel to show when primer is operating	1	MTL
30-51-7810	S	<b>Pre Primer for 6" RS and LS gated suctions Waterous primer</b>	2	MTL
30-51-8100		<b>Heat exchanger included with chassis</b>	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-3001		Foam system not requested E	1	MTL
		<b>WATER AND FOAM TANKS</b>	1	MTL
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-6500	S	<b>Tank capacity 1600 Imperial Gallons</b>	1	MTL
40-21-1000		<b>4" tank to pump connection</b>	1	MTL
40-22-0500		<b>2" tank fill connection</b>	1	MTL
40-23-0500		<b>1" water level gauge connection</b>	1	MTL
40-23-1050		<b>4" Fireman's Friend connection</b>	1	MTL
40-23-1060		<b>10" Newton dump connection</b>	1	MTL
40-30-0400		3" plug in sump box	1	MTL
40-30-1000	S	<b>Water Fill Box front left corner</b> The fill tower shall be constructed of 0.50" polypropylene and shall be a minimum of 14" wide by 14" long to allow 6" overflow pipe and room for a 2.5" hose to meet ULC. Fill tower shall be furnished with a 0.25" thick polypropylene screen and a hinged cover. Customer has advised that the location of the front left corner is preferred. As advised by Todd Finnie by e-mail on 08.17.2020	1	MTL
40-31-3500		<b>10" rear Newton dump, stainless steel</b>	1	MTL
40-31-5510		<b>Electric operator for Newton dump, side mount</b>	1	MTL
40-31-5610		> <b>Rotating dump chute for Newton dump SS</b>	1	MTL
		ENG. NOTE: Requires top mount control on dump valve		
40-31-5800		<b>Support for rotating dump chute if necessary</b> Engineering to determine if this support is required	1	MTL
40-31-9000		<b>4" Storz rear fill, Fireman's Friend</b> Bleeder required. Located right of dump line. Extend out to clear dump chute.	1	MTL
		<b>ELECTRICAL</b>	1	MTL
50-11-0300		<b>Base electrical system - multiplex E</b>	1	MTL
50-11-0600		<b>Warning Light Certification</b>	1	MTL
50-11-0700		<b>Low Voltage Electrical system test</b>	1	MTL
50-11-0800		<b>Low Voltage Electrical System Documents</b> As required by ULC and NFPA standards	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-11-0900		<b>Rocker switch panel with master warning switch</b> The bank of switches will be located on the chassis cab console (20-31-7500) ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -REAR BEACONS -FLASHING WARNING -LEFT SIDE SCENE -REAR SCENE -RIGHT SIDE SCENE -Mini water level gauge (ref 70-21-35AA)	1	MTL
50-11-1493	U	<b>Whelen Siren - 295HFS2 in console</b> P/n 1001157	1	
50-11-1630		> <b>Siren speaker,200 watt, in front bumper</b> ENG. NOTE: 1570615 Federal BP200-EF	1	MTL
50-11-2600		<b>Siren to be accessible to driver and officer</b>	1	MTL
50-11-3500		<b>Horn ring transfer switch</b> The siren shall offer hands free operation which shall allow the operator to turn the siren on and off from the horn ring when the horn/siren selector switch option is selected.	1	MTL
50-11-63AA	U	<b>Whelen LED Freedom light bar model FN0QLED with blue pods</b> Total of ten (10) LED modules. Two (2) corner red linear LEDs, two (2) front red linear LEDs, two (2) front white linear LEDs and two (2) side red linear LEDs. There will be an additional two (2) front linear blue LEDs. The outer lenses shall be clear. Department to approve WECAD: Signed off on Change Order A approval	1	
50-11-6610		<b>Rear LED Traffic Advisor warning lights - flush mount</b> TAM83 with controller in 20-31-7500 console	1	MTL
50-11-8640	U	<b>Whelen L31H*F LED Rear Beacons - 2 Red, 2 Blue</b> Four (4) Whelen model #L31H*F, LED beacon lights. (2) with red lenses (L31HRFN) and two (2) with blue lenses L31HBF) shall be provided. Two (2) installed on each side of the upper rear of the apparatus body. SOPT #9 - truck specific Customer to advise the location of the red and blue beacons: Top left: Blue Lower left: Red Top right: Red Lower right: Blue As advised by Todd Finnie by e-mail on 08.17.2020	2	
50-12-5060	U	<b>Front LED flashers (pr) - Whelen red/blue LED C6 w/chrome bezel</b> The front flashers will red on the left side and blue on the right side. As requested by Todd Finnie by e-mail on 08.17.2020	1	
50-12-5170	U	<b>Rear LED flashers (pr) - Whelen red LED C6 w/chrome bezel</b>	1	
50-12-5270	U	<b>Front side inter lts (pr) - Whelen blue LED C6 w/chrome bezel</b> Flashers will be mounted on side of front bumper extension Colors to be determined at pre-construction: Left side: Blue Right side: Blue As requested by Todd Finnie by e-mail on 08.17.2020	1	
50-12-8832	U	<b>Body side inter lts (pr) - Whelen red LED C6 w/chrome bezel</b>	1	
50-12-8833	U	<b>Body side upper lights (pr) Whelen red LED C6 w/chrome bezel</b> There will be a red Whelen C6 with chrome bezel installed on the upper front side of the body. As requested by Todd Finnie by e-mail on 08.17.2020	1	
50-12-8902	U	<b>Price Adjustment</b>	1	

PART NO	S	DESCRIPTION	QTY	ID
50-12-89AA	U	<b>Add'l body side inter lts (pr)-Whelen red LED C6 w/chrome bezel</b>	1	
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) <b>ENG. NOTE:</b> Rollup doors only	1	MTL
50-21-5500	S	<b>Door Ajar warning light</b> Warning label in cab to read: "Do Not Move Apparatus when Light is on" Located in the overhead console over the driver's seating position As requested by Todd Finnie by e-mail on 08.17.2020	1	MTL
50-21-8001		<b>Step lights for body steps - 4" LED</b> Switched with park brake	1	MTL
50-21-8201	S	<b>Step lights for chassis steps - LED</b> Switched with park brake	1	MTL
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8605	U	<b>Polished Aluminum license plate holder w/LED light</b>	1	
50-21-8800		<b>LED intermediate turn signal/clearance/reflector length &gt;30'</b>	1	MTL
50-22-0700	S	<b>Whelen C6 LED tail/brake-turn-backup module (pr)</b>	1	MTL
50-31-6021	U	<b>Whelen scene lights - C9SL - left side (pr) w/chrome bezel</b> Switched in cab. These lights can be managed to shed	1	
50-31-6022	U	<b>Whelen scene lights - C9SL - rear (pr) w/chrome bezel</b> Switched in cab and with reverse gear of transmission. These lights cannot be managed to shed as they are required for ULC	1	
50-31-6023	U	<b>Whelen scene lights - C9SL - right side (pr) w/chrome bezel</b> Switched in cab. These lights can be managed to shed	1	
50-31-6550		<b>Ground lighting (LED Lumabar) - 2 door chassis</b> Switched with park brake	1	MTL
50-31-6570		<b>Ground lighting (LED Lumabar) - side mount body</b> Switched with park brake	1	MTL
50-31-65AA	U	<b>Hose bed lighting - 20" LED on front partition</b> Switched with park brake	1	
		<b>BODY</b>	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 E	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400		> Diamondback pumphouse steps <b>ENG. NOTE:</b> Maximum height of step is 24" from ground	1	MTL
60-10-5430		> Diamondback 19" rear step <b>ENG. NOTE:</b> Maximum height of rear step is 24" from ground	1	MTL
60-10-6000		<b>Extruded rub rail</b> Note - Bolt on rub rails with reflective white striping are available at extra cost to match M17-19041	1	MTL
60-11-0100	S	> <b>Front left side compartment to top of wheel well</b> <b>ENG. NOTE:</b> Specify critical dimensions in shop note  Compartment opening to be 30" high minimum as requested by Todd Finnie by e-mail on 08.17.2020	1	MTL



PART NO	S	DESCRIPTION	QTY	ID
60-11-0150	S	> <b>Second front left side compartment above L1 compartment</b> ENG. NOTE: Specify critical dimensions in shop note  There will be a compartment above the L1 compartment and ahead of the porta tank tube (60-40-9500). It will be covered with a flush mount flip up door (60-11-4500). As requested by Todd Finnie by e-mail on 10.15.2020	1	MTL
60-11-0500	S	> <b>Front right side compartment to top of wheel well</b> ENG. NOTE: Specify critical dimensions in shop note  Compartment opening to be 30" high minimum as requested by Todd Finnie by e-mail on 08.17.2020	1	MTL
60-11-0800	S	> <b>Rear left side compartment to top of wheel well</b> ENG. NOTE: Specify critical dimensions in shop note  Compartment opening to be 30" high minimum as requested by Todd Finnie by e-mail on 08.17.2020	1	MTL
60-11-1100	S	> <b>Rear right side compartment to top of wheel well</b> ENG. NOTE: Specify critical dimensions in shop note  Compartment opening to be 30" high minimum to allow the storage of a department supplied portable pump. Department to supply portable pump dimensions: CET 18hp 22" w x 24" d x 24" h As requested by Todd Finnie by e-mail on 08.17.2020	1	MTL
60-11-3100		<b>No rear compartment E</b>	1	MTL
60-11-4500	S	<b>Flip Up Flush mount aluminum door - single with "D" handle</b> There will be a flip up flush mount door installed on the upper front left side compartment (60-11-0150). As requested by Todd Finnie by e-mail on 10.15.2020	1	MTL
60-11-5500	S	<b>Rollup door - standard height</b> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point The doors will be natural finish as requested by Todd Finnie by e-mail on 10.05.2020	4	MTL
60-11-5600	U	<b>Price Adjustment</b>	4	
60-11-5630	U	<b>Price Adjustment</b>	2	
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
60-31-5500	S	<b>Steps at rear of body (folding) w/LED lighting</b> Maximum height between steps is 18"	1	MTL
60-31-5600	S	<b>Steps and grab handles at front of body next to pump panel</b> Maximum height between steps is 18" There will be folding steps with integral LED lights supplied and installed on the front of the body as requested by Todd Finnie by e-mail on 09.10.2020	1	MTL
60-31-5800	S	<b>Intermediate step over rear dump</b>	1	MTL
60-31-6500	S	<b>Compartment matting- Plastic Interlocking Tile</b>	1	MTL
60-31-8800	U	<b>Price Adjustment</b>	2	
60-31-8800	S	> <b>Sliding tray (ea) - 600 pound capacity</b> ENG. NOTE: Specify location  ***Hardware requires 3-1/2" of compartment height Reflective stripe is applied on the exposed edge for visibility when the compartment door is open	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Tray #1 - R2 compartment for customer supplied portable pump Department to supply portable pump info: Make: CET Model: 18 hp Length: 22" Width: 24" Height: 24" As requested by Todd Finnie by e-mail on 08.17.2020		
60-31-9600	S	> <b>Adjustable shelf (ea)</b> <b>ENG. NOTE:</b> Specify location  Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Shelf #1 - R1 compartment Shelf #2 - L1 compartment Shelf #3 - L2 compartment As requested by Todd Finnie by e-mail on 08.17.2020 and 07.12.2021	3	MTL
60-32-3570	S	<b>Four adjustable hose divider (each)</b> Hand hold required in end There will be four (4) adjustable hose bed dividers supplied and installed. The fourth divider will be used to hold two (2) customer supplied 4" suction hoses in the bed. As requested by Todd Finnie by e-mail on 09.10.2020	1	MTL
60-32-7500	S	<b>Hose bed - aluminum</b> The hose bed shall accommodate the following hose loads: 300 meters (1000') of 100 mm (4") hose As confirmed by Todd Finnie by e-mail on 07.20.2021 There will be a front partition supplied and installed parallel to the front of the body as per the tender section 4.147	1	MTL
60-33-0100		<b>Paint exterior - Imron Elite and clearcoat E</b> *** Paint code and colour red to match cab	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600		<b>Chassis wheels not painted</b> Wheels are polished aluminum	1	MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1600		<b>Special paint compartment interior - gray zolatone E</b> The compartment interiors are finished with a gray textured paint for chip resistance. Shelves, trays and hardware are left natural aluminum.	1	MTL
60-33-2300	S	<b>Lettering - 80 letters up to 3" tall - 3 colour</b> *** Vinyl letters, Fire Department to provide details on location and text. Lettering will include: - Door decal in gold reflective with black shadow - Canadian flag in the reflective stripe in the chassis doors - Truck # "63-02" in black in reflective stripe of chassis door As shown on the approval drawing that was approved by Todd Finnie by e-mail on 06.30.2021	1	MTL
60-33-3300	S	<b>Reflective stripe - 4" White</b> 50% of perimeter each side and 25% of perimeter front 3M Scotchlite material Minimum to meet ULC and as per the tender	1	MTL
60-33-3310	S	<b>Reflective stripe - red and fluorescent yellow-green chevron at rear</b> Minimum 50% of rear vertical surface. Diamond grade material.	1	MTL
60-33-3320	U	<b>Reflective stripe - red and fluorescent yellow-green chevron on front bumper</b> Diamond grade material. Note - Diamond grade chevron can only be installed on a straight flat surface	1	

PART NO	S	DESCRIPTION	QTY	ID
		due to the thickness of the material. Some areas of the M2 112 Freightliner bumper is curved.		
60-33-3500		<b>Tarp over hose bed - black</b> Footman loops will be supplied and installed	1	MTL
60-33-46AA	U	<b>Double Hinged Crosslay cover with end tarp(s)</b> There will be a double hinged deck plate crosslay cover that will cover the two (2) crosslays and the 4" deadlay. The cover will be in two (2) pieces to allow access to the deadlay area or the three (3) lays. There will be two (2) end tarps per side - one (1) to cover the end of the crosslays and one (1) to cover the end of the deadlay. As requested by Todd Finnie by e-mail on 10.27.2020 SOPT 652	1	
60-40-5500		<b>Suction hose tube (each) with door</b> For storage of the 6" x 10' suction hoses 80-11-5000. Door ajar switch required. The tubes will be completely enclosed	2	MTL
60-40-9000	S	<b>&gt; Tube mount for ladders, with rear door</b> <b>ENG. NOTE:</b> Specify location, ladders to be installed in this tube, complete dimensions of ladders if user supplied  <b>Right side - rear access. The tubes will be completely enclosed</b> <b>For the storage of Customer Duo Safety 24' two section extension ladder, Customers Duo Safety 14' roof ladder and a Duo Safety 10' folding attic ladder (none of the above ladders are included - provisions only).</b> <b>Bottom of ladder tube not to be above 5' from grade.</b> <b>Door ajar switch required</b> <b>Department to supply the following information on their ladders:</b> <b>24' 2-section ladder:</b> <b>Make: Duo Safety</b> <b>Model: _____</b> <b>Lenght: 170.5"</b> <b>Width: 22"</b> <b>Thickness: 7.5" when nested with 14' roof ladder as advised by Todd Finnie by e-mail on 01.29.2021. See customer supplied photo in F:/Data/Jacques/Current Projects/Picture</b> <b>14' Roof ladder</b> <b>Make: Duo Safety</b> <b>Model: _____</b> <b>Lenght: 170.5"</b> <b>Width: 19"</b> <b>Thickness: _____</b> <b>10' Attic ladder:</b> <b>Make: _____</b> <b>Model: _____</b> <b>Lenght: 11' 2"</b> <b>Width: 5"</b> <b>Thickness: 3"</b> <b>Information as provided by Todd Finnie by e-mail on 08.17.2020</b>	1	MTL
60-40-9500	S	<b>&gt; Tube for portable tank storage, with rear door</b> <b>ENG. NOTE:</b> Note location of tube, portable tank to be installed, dimensions of portable tank if customer supplied  <b>Left side - rear access. Tube to be completely enclosed</b> <b>For the storage of Customers 2000 Imp gallon portable tank(not included - provisions only).</b> <b>Bottom of the tube not to be above 5' from grade.</b> <b>Door ajar switch required</b> <b>Customer to specify folded dimensions of their 2000 Imp gallon portable tank</b> <b>Make: _____</b> <b>Model: _____</b>	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Length - 135" Height - 30" Depth (thickness) - 9" As advised by Todd Finnie by e-mail on 08.17.2020		
60-41-1000	S	<b>Pike Pole tube</b> For Customer's pike poles. Two will be integral with ladder tube 60-40-9000 and one will be in the left side suction tube 60-40-5500. Note to Customer - tubes are 2" ID and are the length of the respective tubes.	3	MTL
<b>INSTRUMENTATION</b>				
70-11-0000		<b>Warning Label on Pump Operator's Panel</b>	1	MTL
70-11-0501	S	<b>Side mount instrument panel</b> No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position The rollup doors were removed as requested by Todd Finnie by e-mail on 09.10.2020	1	MTL
70-11-1500		<b>Stainless steel instrument panels</b> No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position	1	MTL
70-11-3205	U	<b>Vision Mark colour coded tags - Imperial/Metric units of measure</b> Vision Mark tags will allow 14 characters per line with two (2) lines available. Department to supply preferred verbiage for each discharge / inlet: 6" Suction: Suction 6" / 150 mm 2.5" RS suction: RS Suction 2.5" / 65 mm 4" RS discharge: RS Discharge 4" / 100 mm 2.5" RS discharge: RS Discharge 2.5" / 65 mm 2.5" LS discharge: LS Discharge 2.5" / 65 mm 1.5" crosslay: Crosslay # 1 1.5" / 38 mm 1.5" trash line: Trashline 1.5" / 38 mm 2.5" crosslay: Crosslay # 2 2.5" / 65 mm As requested by Todd Finnie by e-mail on 08.17.2020 and approved by e-mail on 09.28.3030	1	
70-11-4100	S	<b>Stainless steel side panel hood left side</b> There will be stainless steel side panel hood on the left side pump panel to protect the pump panel lights. As requested by Todd Finnie by e-mail on 09.10.2020	1	MTL
70-11-4500	S	<b>Diamondback grip type panel hood step right side</b> There will be a diamondback grip type step on the right side panel as requested by Todd Finnie by e-mail on 09.10.2020. The step will have yellow delienation reflective stripe to meet NFPA	1	MTL
70-11-5100	S	<b>Open storage at rear top of pump house</b> The area behind the 1.5" crosslay and 2.5" crosslay will be two (2) seperate deadlay storage for 100' of 4" hi-vol hose that will measure 6.75" per lay and will be covered by a deck plate cover(60-33-46AA). As requested by Todd Finnie by e-mail on 10.27.2020 and 11.10.2020	2	MTL
70-11-5500	S	<b>Right side deck plate pump access door</b> No opening dimension less than 18"	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Slot required for Primer level viewing The door will be the standard deck plate door as requested by Todd Finnie by e-mail on 09.10.2020		
70-11-7550	U	<b>Heat pan - aluminum extreme weather type</b> The heat pan will enclose the bottom of the pump house as much as possible to retain the most heat possible. As requested by Todd Finnie by e-mail on 08.17.2020	1	
70-11-8000		<b>Heater in pump compartment</b> Switch location on left side pump operators panel	1	MTL
70-11-8200	U	<b>Rubber seal around suction and discharge openings on panel</b>	1	
70-20-1120	U	<b>4-1/2" compound gauge - dual face 0-400</b> To be within 8" of each other - edge to edge	2	
70-20-2131	U	<b>2-1/2" pressure gauge - dual face 0-400</b> Gauge to be no more than 6" from edge of the gauge to the center of control. One gauge will be inside cab adjacent to the joystick control for the bumper mounted monitor. As requested by Todd Finnie by e-mail on 08.17.2020	8	
70-20-2500	S	<b>Waterous Primer control</b> To prime main pump	1	MTL
70-20-2501	S	<b>Waterous Additional Primer control</b> For LS and RS 6" MIV pre-prime	2	MTL
70-20-3300		<b>FRC InControl Governor Control</b> Throttle can be no lower than 42" and no higher than 72" from operator's standing position.	1	MTL
70-20-3650	U	<b>FRC mini water level gauge in cab</b> WLA205-A00 mini readout in cab	1	
70-20-3660	U	<b>FRC WLA300-A00 water level gauge on LS panel and rear</b> WLA300-A00 on LH Pump panel WLA300-B00 on rear of body	1	
70-20-6500		Test gauge panel Mount below the compound gauges for proper draining	1	MTL
70-20-7500		<b>Heat exchanger control valve</b>	1	MTL
70-21-2100		<b>&gt; PTO Hourmeter</b> <b>ENG. NOTE:</b> Specify location in shop note  <b>Located in the 20-31-7500 console in cab.</b>	1	MTL
70-21-5500	S	<b>Panel readout for Battery Conditioner</b> There will be a panel readout for the Kussmaul Pump Plus 1200 (20-51-6501) located in the left side cab step area. As requested by Todd Finnie by e-mail on 08.17.2020	1	MTL
71-21-4000		<b>Microphone compartment</b> Located on left side pump operators panel	1	MTL
71-21-4500		<b>Speaker on pump panel</b> Pre-wire to cab console area 20-31-7500	1	MTL
71-21-4510	U	<b>Volume control for speaker, microphone and connection on pump panel</b> Volume control for speaker installed on the left side pump operator panel. Connection and microphone installed in the 71-21-4000 Microphone compartment. Microphone to be compatible with the Customers radio system. Details to be determined at the Pre-construction meeting - The radio will be a Motorola XPR 5550 a sadvised by Todd Finnie by e-mail on 08.17.2020	1	

PART NO	S	DESCRIPTION	QTY	ID
<b>ACCESSORIES</b>				
80-11-5000		6" x 10' lightweight suction hose (ea) Tube mounted	1	MTL
			2	MTL
80-12-2500		6" barrel strainer Shipped loose, not mounted.	1	MTL
80-19-0500		Large folding wheel chock - aluminum (ea) not mounted	2	MTL
80-19-0600		> Horizontal bracket for folding wheel chock (ea)	2	MTL
		ENG. NOTE: Specify location, otherwise ship loose		
		Installed under front left compartment ahead of rear wheels unless otherwise specified.		
80-99-05AA	U	Kochek Adapter - S54R46 - 6FNH x 4 Storz Kochek Model S54R46 lightweight aluminum adapter shall be provided. Shipped loose, not mounted. P/N 1501824 SOPT #585	1	