

## **Shop Order**

Carrier Truck Center Inc. O/A Carrier Centers 645 Athlone Place Woodstock, ON N4S 7V8 Corporation of the Town of Hanover 341 10th Street Hanover, ON N4N 1P5

**Exp. Date:** 08/10/2018

Quote No: Hanover, ON-0035

**Job/Order No:** 20350 **BODY:** 00-10-

00-10-15 Metalfab Pumper - ULC 05/13

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER I	1	MTL
00-10-1500		Metalfab Pumper E	1	MTL
00-20-1000		Company Profile E	1	MTL
00-20-1500		Standard Body Warranty	1	MTL
00-20-1550		Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1700		Hale Pump Warranty - 5 years	1	MTL
00-20-1800	S	Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2100	S	Plant Inspection Visit - Final Inspection - 3 persons - Costs covered by CCEV	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
10-11-1101	S	ULC S515-13 and NFPA 1901-2016 Compliance E	1	MTL
10-11-1500	S	> ULC Testing - Pumper - tested in Litres per Minute (Metric)	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	S	Maximum height - 11 feet (132")	1	MTL
10-11-2400		Overall length is 30' or more	1	MTL
10-11-2500		General Construction	1	
10-11-2600	S	Preconstruction Meeting - by CCEV	1	MTL
10-11-3000	S	Manuals - two copies	1	MTL
		***Two copies of manuals are required, one hard copy and one on USB stick.		
		Certification of slip resistance of all stepping, standing and walking surface t	o be	
		supplied with the delivery of the apparatus.		
10-11-3600	S	> Delivery - FOB Fire Department - by CCEV	1	MTL
		ENG. NOTE:		
		Note in the shop note if more than 4 hours of training is required		
10-11-4200	S	Payment Terms-\$115,000.00 down payment,chassis & Body COD less 10%	1	MTL
		HB for 45days		
		Down payment of \$115,000.00		
		Remainder COD, less 10% holdback for 45 days		
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements	1	MTL
		ENG. NOTE:		
		Specify the type of hose and quantity of hose to be carried on the vehicle		
		Main hose bed expected capacity is as follows;		
		600' - 100 mm hose		
		300' - 65 mm hose		

DESCRIPTION
20-11-1000   S   Chassis supplied by Metalfab - Freightlimer M2 106   1   MTL   MTL   Air horn controls to be push button at officer position and steering wheel for driver - no foot which   Model year 2020   47,000 th GWM   16,000 lb front axle   31,000 lb rear axle   264" wheelbase   151,21" cab to axle   Cummins L9 350 HP @ 2000 oppm 2200 governed rpm   1000 lb/fit torque at 1400 ppm   Allison 3000 EVS automatic transmission, 5 speed   275 Amp alternator   Differential lock   Auxiliary air tank   189 liter fuel tank, left side   LED headlights   No rear window   ESC   L0006 EB white over L3240 EB Red   Spray outs required for Customer sign off.   Customer specified paint line on Jan 4, 2019   20-11-1700   S   Chassis Motor Vehicle Inspection required - by CCEV   1   MTL   MTL   **Customer request paint codes to be included to this list   1   MTL   **Customer request paint codes to be included to this list   20-21-0500   Pumping test plate   Metric units   Maximum riders sign - 5 persons   1   MTL   MTL   **Customer request paint codes to be included to this list   MTL   Maximum riders sign - 6 persons   1   MTL
20-11-1000   S   Chassis supplied by Metalfab - Freightlimer M2 106   1   MTL   MTL   Air horn controls to be push button at officer position and steering wheel for driver - no foot which   Model year 2020   47,000 th GWM   16,000 lb front axle   31,000 lb rear axle   264" wheelbase   151,21" cab to axle   Cummins L9 350 HP @ 2000 oppm 2200 governed rpm   1000 lb/fit torque at 1400 ppm   Allison 3000 EVS automatic transmission, 5 speed   275 Amp alternator   Differential lock   Auxiliary air tank   189 liter fuel tank, left side   LED headlights   No rear window   ESC   L0006 EB white over L3240 EB Red   Spray outs required for Customer sign off.   Customer specified paint line on Jan 4, 2019   20-11-1700   S   Chassis Motor Vehicle Inspection required - by CCEV   1   MTL   MTL   **Customer request paint codes to be included to this list   1   MTL   **Customer request paint codes to be included to this list   20-21-0500   Pumping test plate   Metric units   Maximum riders sign - 5 persons   1   MTL   MTL   **Customer request paint codes to be included to this list   MTL   Maximum riders sign - 6 persons   1   MTL
20-11-1000   S
Air horn cóntrols to be push button at officer position and steering wheel for driver - no foot switch Model year 2020 47,000 ib CVW 18,000 lb front axle 31,000 lb rear axle 264" wheelbase 151.21" cab to axle Cummins L9 350 HP @ 2000 rpm 2200 governed rpm 1000 lbft torque at 1400 rpm Allison 3000 EVS automatic transmission, 5 speed 275 Amp alternator Differential lock Auxiliary air tank 189 liter fuel tank, left side LED headlights No rear window ESC L0006 EB white over L3240 EB Red Spray outs required for Customer sign off. Customer specified paint line on Jan 4, 2019  20-11-1500 2013 Emission chassis modifications 1 MTL 7 liud capacity plate 1 MTL 7 liud capacity plate 1 MTL 8 liud capacity plate 1 MTL 9 liud capacity
driver - no foot switch   Model year 2020   47,000 lb GVW   16,000 lb front axle   31,000 lb rear axle   264" wheelbase   151,21" cab to axle   Cummins 19   350 HP   2000 rpm   2200 governed rpm   1000 lbft torque at 1400 rpm   Allison 3000 EVS automatic transmission, 5 speed   275 Amp alternal lock   Auxiliary air tank   189 liter fuel tank, left side   LED headlights   No rear window   ESC   L0006 EB white over L3240 EB Red   Spray outs required for Customer sign off.   Customer specified paint line on Jan 4, 2019   20-11-1500   2013 Emission chassis modifications   1   MTL   20-21-0500   Fluid capacity plate   1   MTL   ****Customer request paint codes to be included to this list   1   MTL   ****Customer request paint codes to be included to this list   20-21-0600   Pumping test plate   Metric units   1   MTL   MTL   ****Customer request paint codes to be included to this list   20-21-1530   Maximum riders sign - 5 persons   1   MTL   MTL   20-21-1530   Maximum riders sign - 5 persons   1   MTL   20-21-1530   Helmet warning labels - 4 door chassis   1   MTL   20-21-1530   Tire Pressure Indicators - Single Axie   1   MTL   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   20-21-3810   Rear step warning label - 40   MTL   MTL   20-21-3810   Rear step warning label - 40   MTL   MTL   20-21-3810   Rear step warning label - 40   MTL   Rear muddlaps - Metalfiab Logo   1   MTL   20-21-3810   Rear step warning label - 40   MTL   Rear muddlaps - Metalfiab Logo   1   MTL   20-21-4000   Rear step warning label - 40   MTL   MTL   40   M
Model year 2020
47,000 lb GVW
264" wheelbase
Cummins L9 350 HP @ 2000 rpm 2200 governed rpm 1000 lbfit torque at 1400 rpm
1000 lb/ft torque at 1400 rpm
Allison 3000 ÉVS automatic transmission, 5 speed 275 Amp alternator Differential lock Auxillary air tank 189 liter fuel tank, left side LED headlights No rear window ESC L0006 EB white over L3240 EB Red Spray outs required for Customer sign off. Customer specified paint line on Jan 4, 2019  20-11-1500 20-11-1500 20-13 Emission chassis modifications Chassis Motor Vehicle Inspection required - by CCEV 1 MTL Fluid capacity plate ****Customer request paint codes to be included to this list  20-21-0500 Pumping test plate Metric units  1 MTL MTL MTL 20-21-1510 Maximum riders sign - 5 persons Maximum riders sign - 5 persons Seat belt warning labels - 4 door chassis 1 MTL 20-21-1520 Hellmet warning labels - 4 door chassis 1 MTL Apparatus Information Label 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"  20-21-2500 Shifter lock not required E 1 MTL 20-21-3500 Rear step warning label 1 MTL Rear step warning label 1 MTL Rear step warning label 1 MTL Rear mudflaps provided with chassis E 1 MTL 20-21-3500 Front mudflaps provided with chassis E 1 MTL Rear mudflaps - Metalfab Logo 1 MTL WTL NTL NTL NTL NTL NTL NTL NTL NTL NTL N
275 Amp alternator   Differential lock   Auxillary air tank   189 liter fuel tank, left side   LED headlights   No rear window   ESC   L0006 EB white over L3240 EB Red   Spray outs required for Customer sign off.   Customer specified paint line on Jan 4, 2019
275 Amp alternator   Differential lock   Auxillary air tank   189 liter fuel tank, left side   LED headlights   No rear window   ESC   L0006 EB white over L3240 EB Red   Spray outs required for Customer sign off.   Customer specified paint line on Jan 4, 2019
Differential lock Auxillary air tank 189 liter fuel tank, left side LED headlights No rear window ESC L0006 EB white over L3240 EB Red Spray outs required for Customer sign off. Customer specified paint line on Jan 4, 2019  20-11-1500 20-13 Emission chassis modifications 1 MTL 20-21-0500 20-13 Emission chassis modifications 1 MTL 20-21-0500 20-21-0500 Pumping test plate ***Customer request paint codes to be included to this list  20-21-0600 Pumping test plate Metric units  20-21-1030 Maximum riders sign - 5 persons 20-21-1510 Seat belt warning label - 4 door chassis 20-21-1520 Helmet warning label - 4 door chassis 20-21-1530 20-21-1530 Tire Pressure Indicators - Single Axle 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"  20-21-2500 Shifter lock not required E 20-21-3500 Rear step warning label 1 MTL 20-21-3500 Rear step warning label 20-21-3500 Rear step warning label 1 MTL 20-21-3500 Rear step warning label 1 MTL 20-21-3500 Rear mudflaps provided with chassis E 1 MTL 20-21-3500 Front mudflaps provided with chassis E 1 MTL 20-21-3500 Rear mudflaps - Metalfab Logo 1 MTL 20-31-1000 Fuel fill label - Ultra Low Sulfur Diseal only Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr To be one piece design
Auxillary air tank
189 liter fuel tank, left side   LED headlights   No rear window   ESC   L0006 EB white over L3240 EB Red   Spray outs required for Customer sign off.   Customer specified paint line on Jan 4, 2019
LED headlights   No rear window   ESC   L0006 EB white over L3240 EB Red   Spray outs required for Customer sign off.   Customer specified paint line on Jan 4, 2019
No rear window   ESC
SEC
L0006 EB white over L3240 EB Red Spray outs required for Customer sign off. Customer specified paint line on Jan 4, 2019  20-11-1500 2013 Emission chassis modifications 1 MTL 20-21-0500 S Chassis Motor Vehicle Inspection required - by CCEV 1 Ifluid capacity plate ***Customer request paint codes to be included to this list  20-21-0600 Pumping test plate Metric units  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 labels - 4 door chassis 1 MTL 20-21-1530 Tire Pressure Indicators - Single Axle 20-21-1600 An information Label An information Label An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: "* in high ** m long ** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"  20-21-2000 Non removable key Shifter lock not required E 20-21-3500 Rear step warning label 1 MTL 20-21-3810 Front mudflaps provided with chassis E 1 MTL 20-31-1000 Full fill label - Ultra Low Sulfur Diesel only Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr To be one piece design
Spray outs required for Customer sign off. Customer specified paint line on Jan 4, 2019  20-11-1500 2013 Emission chassis modifications 1 1 MTL 20-11-1700 S Chassis Motor Vehicle Inspection required - by CCEV 1 1 MTL 20-21-0500 Fluid capacity plate 1 1 MTL  20-21-0600 Pumping test plate Metric units 1 1 MTL  20-21-1030 Maximum riders sign - 5 persons 1 1 MTL 20-21-1510 Seat belt warning labels - 4 door chassis 1 1 MTL 20-21-1520 Helmet warning label - do not wear helmet 4 MTL 20-21-1530 Tire Pressure Indicators - Single Axle 1 1 Amparatus Information Label An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was:  *** mingh *** m long *** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"  20-21-2500 Shifter lock not required E 1 MTL 20-21-3810 Rear step warning label - Use of the MTL 20-21-3810 Rear step warning label - Use of the MTL 20-21-3810 Rear step warning label - Use of the MTL 20-31-1000 Fluid libel - Ultra Low Sulffur Diesel only 1 MTL Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr 1 To be one plece design
20-11-1500   2013 Emission chassis modifications   1   20-11-1700   S   Chassis Motor Vehicle Inspection required - by CCEV   1   MTL   WTL   To be one piece design   1   MTL   MTL   WTL   W
20-11-1500   2013 Emission chassis modifications   1   20-11-1700   S   Chassis Motor Vehicle Inspection required - by CCEV   1   MTL   WTL   To be one piece design   1   MTL   MTL   WTL   W
20-11-1500   2013 Emission chassis modifications   1   20-11-1700   S   Chassis Motor Vehicle Inspection required - by CCEV   1   MTL   To be one piece design   1   MTL   MTL   20-21-0500   Fluid capacity plate   1   MTL   MTL
20-21-0500  Chassis Motor Vehicle Inspection required - by CCEV Fluid capacity plate ***Customer request paint codes to be included to this list  20-21-0600  Pumping test plate Metric units  1 MTL 20-21-1030 Seat belt warning labels - 4 door chassis 1 MTL 20-21-1510 Seat belt warning label - do not wear helmet 20-21-1520 Helmet warning label - do not wear helmet 20-21-1530 Tire Pressure Indicators - Single Axle 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"  20-21-2000 Non removable key Shifter lock not required E 20-21-3500 Shifter lock not required E 20-21-3810 Front mudflaps provided with chassis E Rear step warning label 20-31-0200 Rear mudflaps - Metalfab Logo 1 MTL Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr To be one piece design
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20-21-0500   Fluid capacity plate
##*Customer request paint codes to be included to this list  20-21-0600
20-21-0600   Pumping test plate   Metric units   MTL
Metric units  20-21-1030
Metric units  20-21-1030
Metric units
20-21-1510 20-21-1520 30
20-21-1510 20-21-1520 30
20-21-1510 20-21-1520 30
20-21-1520     Tire Pressure Indicators - Single Axle 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"  20-21-2000     Non removable key     20-21-2500     Shifter lock not required E     20-21-3500     Rear step warning label     70-21-3810
20-21-1530 20-21-1600 Tire Pressure Indicators - Single Axle 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"  20-21-2000 Non removable key 20-21-2500 Shifter lock not required E 20-21-3500 Rear step warning label 20-21-3810 Front mudflaps provided with chassis E 20-21-4000 Rear mudflaps - Metalfab Logo 1 MTL 20-31-0200 Fuel fill label - Ultra Low Sulfur Diesel only Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr To be one piece design
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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         20-21-3810       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       1       MTL         To be one piece design       1       MTL
20-21-2500 Shifter lock not required E 20-21-3500 Rear step warning label 20-21-3810 Front mudflaps provided with chassis E 20-21-4000 Rear mudflaps - Metalfab Logo 20-31-0200 Fuel fill label -Ultra Low Sulfur Diesel only 20-31-1100 Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr To be one piece design
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20-21-4000 Rear mudflaps - Metalfab Logo 20-31-0200 Fuel fill label -Ultra Low Sulfur Diesel only 20-31-1100 Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr To be one piece design
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To be one piece design
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20-31-1500 S > Special compartments in chassis steps - AS ROOM PERMITS 2 MTL
ENG. NOTE:
Specify any required dimensions, latch type in the shop note
Compartment under right and left rear door of cab if space permits.
Compartment to have an LED light and door to be wired to the door ajar warning
light in cab. Door(s) will be vertically hinged towards front of cab.
Interlocking plastic tile to be installed on floors of compartments.
manda and to be included on needs of compartments.
20-31-1900 S Chassis cab painted white over red by chassis OEM 1 MTL
20-31-4700 S > Extend front bumper, gravshid with preconnected hosewell 1 MTL
ENG. NOTE:
Note location of inreconnect albow
Note location of preconnect elbow  Note special capacity requirements

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PART NO	S	DESCRIPTION	QT'	Υ	ID
		***Bumper to be extended approximately 20" ahead of cab to carry 150'	of		
		45mm (1.75") hose.			
		A hinged tread plate cover over the trash line with a notch/slot so hose car	be		
		stay pre-connect will be installed. It shall have a "D" handle style latch.			
		• •			
20-31-7500	S	Console in cab		1	MTL
		A console is installed between the cab seats with the siren (50-11-1450), pu	mp		
		shift (30-51-0500), Traffic advisor control (50-11-66AA) and a cutout for			
		customer supplied and installed Kenwood NX5700 (DIN mount does not exis			
		this unit).			
		Provide storage for 6 inches (thick) of letter sized binders and miscellane	ous		
		paperwork and clipboards. There will be storage for a Vulcan Streamli			
		charger 80-99-20AA.			
		Gray Zolatone finish			
		Console layout to be approved via EMAIL - send layout to Rod when ready			
20-31-76AA	U	LED lighting in Console storage area - 12" LED Lumabar(s) - as required		1	
		SOPT #307a			
20-41-0600	S	Intake air shutoff for engine not requested			MTL
20-41-0900		Auxiliary braking system disabled when pumping			MTL
20-41-1100		Transmission programming - Allison WT		1	MTL
20-41-1500		Extend exhaust pipe - RS front of rear wheels E		1	MTL
		Engineering to specify exhaust pipe material as required by the chas	sis		
		manufacturer.			
		Engineering to sign off on the exhaust configuration to make sure it meets	the		
		chassis manufacturer's emission specifications.			
		***See also 20-99-15AA re Nederman provision/requirements			
20 44 4000		Dattery beast terminals with shassis F		4	NATI
20-41-1900		Battery boost terminals with chassis E			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
20-41-5010		Rear Tow Hooks - through rear of body E		1	MTL
20-51-0710		Master Battery Disconnect included with Freightliner chassis			MTL
20-51-2500		Back up alarm included with chassis			MTL
20-51-3000		Air inlet with matching fitting - LS		1	MTL
		Located in left side cab step area.			
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			MTL
20-01-0200		ENG. NOTE:		7	
		Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet			
		Troquinos 25 61 76 125 voicados ojost of 25 61 65 125 voicimiet			
		Standard 5-20R duplex receptacle in chassis cab, not fused			
		One (1) for the battery conditioner to plug inside the cab powered from the sha	re		
		power.			
		One (1) each side (rear most) of the console facing back - total of two (2)			
		One (1) in the upper left portion of the L3 compartment under the fixed shelf to prove	⁄ide		
		power for a customer supplied / installled portable pump charger.			
		As confirmed with Rod Harris by phone 06.10.2019.			
20-51-621B	U	120 volt 15 A outlet powered from inverter		1	
		There will be one (1) outlet installed in the L1 upper side rear wall that will be power	red		
		by the inverter 51-31-28AA.			
	_				
20-51-6501	S	Kussmaul Pump Plus battery conditioner, 120 Volt air compressor		1	MTL
		Pump plus 1200 with water separator and automatic drain built in.			
		Kussmaul Model 52-11-4106			
		SOPT #547 - Truck specific			
		Conditioner is mounted in cab behind rear seat.			
		Compressor is mounted in pump house easily accessible through right	side		
		pump access door.			
00 54 5454	•				
20-51-7101	S	Electric System Management - VMUX		1	MTL

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PART NO	S	DESCRIPTION	QTY		ID
20-51-7500	S	Super Auto eject for 120 v - 20 A with sealed enclosure		1	MTL
		Located in left side cab step area.			
20 54 9500	c	Engine compartment lighting LED		1	MTL
20-51-8500	S	Engine compartment lighting - LED Switched when park brake is set		7	IVI I L
		Switched when park brake is set			
20-51-9001	S	Air horns and controls as supplied with Freightliner chassis		1	MTL
20-01-3001		Air horn controls to be push button at officer position and steering whee			
		driver - no foot switch			
		Horn transfer switch on chassis dash from Freightliner to switch steering wl	ieel		
		horn button from electric to air horns.			
		The push button for the Officer will be located on the chassis dash within	asy		
		reach.			
00 50 0040		At the control of the			
20-52-0010	U	Air horn switch on pump operators panel Labeled "AIR HORN"		1	
		SOPT #475			
		30F1 #4/3			
20-52-3500		> Chassis steering wheel lined up by Metalfab E		1	MTL
20 02 0000		ENG. NOTE:			=
		Freightliner, Sterling, and Spartan only			
20-60-0400		Chassis wheelbase does not change			MTL
20-90-1810	U	Extend air tank moisture ejectors to rubrail and tag/label		1	
		SOPT #507			
20-99-05AA	,,	Changia whoole we aligned after hady installed and full of water		,	
20-99-05AA	U	Chassis wheels re-aligned after body installed and full of water SOPT #1220		1	
		30F1 #1220			
20-99-06AA	U	Bumper guides, chrome, lighted		1	
20 00 00, 21		There will be a set of bumper guides installed on the front bumper extension.	The	-	
		guides will be chromed and have a marker light installed on the top.			
		Same as Innisfil, ON SOPT 462			
20-99-10AA	U	USB dual charging port in cab - installed on console 20-31-7500		1	
		Part number 1521659			
		SOPT #467			
		Customer requested two in the cab - one is included with the Freightl chassis, install the above one in the console 20-31-7500 near the officer located the console 20-31-7500 near the console 20	ion		
		The USB plugs are to be live all the time off the chassis batteries.	1011.		
		The cos plage are to so hive an are arrest and chacere successes.			
20-99-15AA	U	Exhaust adapter/magnetic anchor plate compatible with Nederman system		1	
		Exhaust to be terminated at a right angle to the body and spaced below ru	brail		
		for so it is compatible for Nederman exhaust removal system.			
		There will be a Nederman exhaust extraction anchor plate designed for use	vith		
		the magnarail and magnatrack system mount to the body			
		See SOPT #811			
20-99-25AA	U	Federal Camset rear view camera with 1 side view camera, 5.6" LCD		1	
20-03-2077	5	monitor		1	
		One rear view camera (to activate when transmission is placed in reverse gea	ır)		
		In addition to the rear camera there shall be one (1) side mounted camera me			
		mounted on the passenger side mirror or approved location. This camera			
		activate when right signal is chosen by operator. Both cameras to be viewed	lon		
		the single 5.6" colour monitor (mounted on the upper center console area).			
		SOPT #465a - Truck specific			
		PUMP AND PLUMBING		1	MTL
30-11-3802		Hale DSD midship pump - 1250 IGPM		1	MTL
30-15-0304		Plumbing - non manifold pump SM SS E		1	MTL
30-20-0500		Valves and controls - side mount panel		1	MTL
30-20-1003		Elkhart valves specified		1	MTL
30-20-1620		Piping stainless steel - non manifold Pumper		1	MTL
30-20-1700	S	1-1/2" thread specifications - NPSH		1	MTL
30-20-1800	S	2-1/2" thread specifications - CSA		1	MTL

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PART NO	S	DESCRIPTION	QTY	<b>ID</b>
30-20-2000		Piping hydrostatic test	7	1 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.		
30-21-5520		Tank to Pump SS 3" w/ check valve non manifold pump	7	1 MTL
		4" plumbing		
		· F		
30-22-0520		Tank Fill valve 2" SS	1	1 MTL
30-31-4020	S	Suction - 6" not gated LS and EMIV RS- SS non manifold pump 6" header	-	1 MTL
00 01 1020		LS - department will install an Elkhart 9786 piston intake valve		
		RS - Electric Master Intake Valve		
		No Eloculo mado fundo		
30-31-5100	S	Suction - 4" SS piping to rear - electric valve, 4" Storz fitting w/ droop		1 MTL
30-31-3100	J	The 4" connection will have a 30-degree droop as confirmed by e-mail		, ,,,,,,
		05.06.2019.	011	
		03.00.2013.		
30-31-7200	S	> Hale master intake suction valve - electric control		2 MTL
30-31-7200	3	ENG. NOTE:	4	ZIVIIL
		Required for top mount panels		
		Show location in Shop Note		
		The CII sight aids in let and the All year Oters in let will be wated		
		The 6" right side inlet and the 4" rear Storz inlet will be gated.		
00 00 0050		0.40.00.00.00.00.00.00.00.00.00.00.00.00		4 0071
30-32-8050		Suction - 2-1/2" right side SS, bleeder, non manifold pump	7	1 MTL
30-40-2006	S	4" right discharge, plumbed 3", non manifold pump, SS, bleeder	-	1 MTL
30-41-2040		2-1/2" RS discharge SS, bleeder, non manifold pump		1 MTL
30-41-2540	_	2-1/2" LS discharge SS, bleeder, non manifold pump	_	1 MTL
30-43-1520	S	2-1/2" rear LS hose bed discharge SS, plumbed 2-1/2", bleeder		1 MTL
		Left side hose bed - leave ample clearance from hose bed and piping so a h	ose	
		wrench can be used to the threaded adapter.		
30-44-0720	S	1-3/4" (45mm) speedlay (each) top of pumphouse SS, plumbed 2"	2	2 MTL
		Each hose bed shall be capable of holding 200 feet of hose and nozzle.		
30-44-1000	S	> 1-3/4" front trash line, plumbed 2", hosewell	1	1 MTL
		ENG. NOTE:		
		Requires extended front bumper, gravelshield		
		Will carry 150' of 45mm (1-3/4") hose. CP Swivel on top of bumper.	ĺ	
30-44-6520	S	Piping for monitor SS, plumbed 3", bleeder	1	1 MTL
		Maximum height with monitor installed - 11'		
		Make and Model of Monitor - Elkhart 2.0 Stinger with SM1250 nozzl	e -	
		80-99-35AA		
		The piping will be in the left rear corner of the pump house and there will	be a	
		cutout in the cover (70-11-52AA) to allow deployment of the monitor with	out	
		opening the cover.		
30-51-0500		Pump shift-Midship air	7	1 MTL
		***Includes "Pump Engaged" and "OK to Pump" indicator lights on chassis instrum	ent	
		panel		
		***Includes "Throttle Ready" indicator light on Pump operating panel		
30-51-0700		Pump Gearbox mounted manual over ride for pump shift E	1	1 MTL
30-51-6700		FRC Pump Boss Governor/Throttle engine display	1	1 MTL
30-51-7002		Suction side relief V/V, non manifold pump	3	3 MTL
		One for main pump		
		One for right side 6" inlet		
		One for rear 4" Storz inlet		
30-51-7713		Trident Air Primer 3 barrel 3 location		1 MTL
35 57 77 0		Location one - Primer control for main pump		
		Location two - Pre-primer control for right side 6" inlet		
		Location three - Pre-primer control for rear 4" Storz inlet		

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PART NO	S	DESCRIPTION	QTY	ID
30-51-7720	S	Additional air tank for air primer system	1	MTL
		An additional air tank is provided to improve air primer capacity and is sup	olied	
		with the Freightliner chassis		
		ŭ .		
30-51-8100		Heat exchanger included with chassis	1	MTL
30-51-8500		Pump cooler with control valve, check valve	1	
30-51-9000		Thermal Relief Valve	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-2000	S	Drain valve for foam system header	1	MTL
30-52-5510	S	Foam system-Hypro FoamPro 2001 Single Tank	1	
30-32-3310	3	Foam system is plumbed to the front trash line, both speedlays and rear 2	_	WIL
			1.5	
		discharge in the hose bed.		
00 50 0400	•	5		0.071
30-52-9100	S	Foam concentrate label at foam tank fill	1	
30-52-9200	S	Foam System Instruction Plates	1	MTL
30-52-9400	S	NFPA Foam System certification test	1	MTL
		WATER AND FOAM TANKS	1	MTL
40-11-2100	S	Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-5500	S	Tank capacity 1200 Imperial Gallons	1	MTL
40-12-4500	S	Foam cell - 10 Imperial gallon	1	MTL
40-13-0100	S	> Through the tank tunnel for the portable tank rack	1	
10 10 0100		ENG. NOTE:	-	
		Charge 60 per cubic foot of tunnel volume		
		Orlarge of per duble foot of turner volume		
		Ref 60-40-9001		
		Kei 00-40-300 i		
40 24 4000		4" touls to pump composition	1	MTL
40-21-1000		4" tank to pump connection	_	
40-22-0500		2" tank fill connection	1	MTL
40-23-0500	_	1" water level gauge connection	1	
40-23-1000	S	1" foam 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
		Locate sump drain connection in sump box left side of tank.		
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-3500		10" rear Newton dump,stainless steel	1	MTL
40-31-5500		Electric operator for Newton dump	1	MTL
40-31-5610	U	SS Swivel Dump chute (Rotating w/lock)	1	
	_	SOPT #2	_	
40-31-9000		4" Storz rear fill, Fireman's Friend	1	MTL
40 01 0000		Right of dump above the rotating swivel chute - keep as low as possible.		
		Include bleeder		
		include bleeder		
		ELECTRICAL	1	MTL
50-11-0300			1	
		Base electrical system - multiplex E	-	
50-11-0600		Warning Light Certification	1	MTL
50-11-0700		Low Voltage Electrical system test	1	
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	1	MTL
		***Rocker switch assignments: - Overhead center console -		
		MASTER		
		-LIGHT BAR RED		
		-LIGHT BAR CLEAR		
		-FLASHING WARNING		
		-BROW LIGHT		
		-LEFT SCENE		
		-RIGHT SCENE		
		-RIGHT POLE LIGHT		
		-RIGHT POLE LIGHT -LEFT POLE LIGHT		
		- Rear Scene - was missing from the list and added on 05.07.2019		
		- Near Ocenie - was inissing from the fist and added off 03.07.2013		

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PART NO	S	DESCRIPTION	QTY	ID
50-11-1450		Federal PA300 200 watt siren	1	MTL
50-11-1630		Siren speaker,200 watt, in front bumper	1	MTL
50-11-2010	S	Federal Q2B mechanical siren - through front bumper	1	MTL
		Siren mounted in the right side of bumper on an angle unless other	vise	
		specified.		
		***Controlled by push button and siren brake switch is located on chassis of	lash	
		near the air horn button (20-51-9001).		
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-61AA	U	< Whelen Justice JE2NFPA LED light bar	1	
		Add an additional blue light in lightbar.		
		SOPT 269a		
50-11-66AA	U	Rear LED Traffic Advisor - Whelen TAL65 - surface mount	1	
		Install under the rear step		
	_			
50-12-8500	S	Front LED flashers (pr)-Whelan red LED 400 - 1 pair red, 1 pair blue	2	MTL
		1 pair red and 1 pair blue in grille.		
		Arrange so the red and blue lights are diagonal to each other		
50-12-8600	S	Rear LED flashers (pr)-Whelen red/blue LED 400	1	MTL
		There will be a pair of Whelen 400 flashers installed midway up the rear of the	unit.	
		The left side will be a blue flasher and the right side will be red.		
	_			
50-12-8620	S	Rear LED flashers (pr)-Whelan red LED 900 with integral flasher - upper	1	MTL
		level	,	
50-12-8700		Front side inter Its (pr) - Whelan red LED 400	1	
50-12-8800	_	Body side inter Its (pr)-Whelan red LED 400	1	
50-12-8820	S	Body side inter Its (pr)-Whelan red LED 900 with integral flasher - upper	1	MTL
		level		
		One each side - upper rear corners		
50 40 0000		Addill bady side into the (m) Wholen and LED 400		NATI
50-12-8900	S	> Add'l body side inter Its (pr)-Whelen red LED 400	1	MTL
		ENG. NOTE:		
		Required if distance between front and rear side intersection lights exceeds 25'		
50-21-25AA	U	Federal Commander Series 12 volt telescoping lights at front of body (ea)	2	
30-21-23AA	U	One each side on front of body as shown on FT-11099		
		Federal Model #COM15K-530SW		
		12 volt bottom raise		
		Switched in the cab - not on the light		
		Include "SW" for hazard switch wired to the the equipment rack not stowed	liaht	
		in cab.	igiit	
		Confirmed the location with Rod Harris by e-mail on 04.29.2019		
		Committee the location with 1300 Harris By C-mail on 04.25.2515		
50-21-25BB	U	Federal Commander Series - 12 volt contour brow light - center front of	1	
30 21 2000	9	chassis	,	
		Federal Model #COM15K-800-08		
		12 volt - Specify chassis when ordering (Freightliner M2)		
		Switched in the cab		
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors)	1	MTL
		ENG. NOTE:		
		Rollup doors only		
50-21-5500		Door Ajar warning light	1	MTL
		Located in overhead console over drivers seat		
		Bilingual warning label in cab to read:		
		"Do Not Move Apparatus when Light is on"		
50-21-5550		Equipment rack not stowed warning light	1	MTL
		Located in overhead console over drivers seat		
		Bilingual warning label in cab to read:		
		"Do Not Move Apparatus when Light is on"		

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PART NO	S	DESCRIPTION	QT		ID
50-21-8001	S	Step lights for body steps - LED		1	MTL
		Switched when park brake is set.			
50.04.0004	•	Otan limbta fan akaasia atana UED		_	8471
50-21-8201	S	Step lights for chassis steps - LED		7	MTL
		Switched when park brake is set and also activated with corresponding t signal	urn		
		Signal			
50-21-8600		LED clearance Its and reflectors		1	MTL
50-21-8605	U	Polished cast aluminum license plate bracket with LED light		1	
00 27 0000		SOPT #18			
50-21-8800		LED intermediate turn signal/clearance/reflector length >30'		1	MTL
50-22-0770	U	Whelen M6 LED tail light assembly, M6FCV4 housing		1	
		From top to bottom;			
		Flashing red left side and flashing blue right side.			
		Amber turn			
		Red tail/brake			
		Clear back up SOPT #1093			
		50P1 #1093			
50-31-6015	U	Whelen C9SL LED Scene lights (pr) - Left side		1	
30-31-0013	J	In upper corners of side		'	
		Switched in cab			
		These lights can be managed to shed and will be Whelen C9SL.			
		The state of the s			
50-31-6016	U	Whelen C9SL LED Scene lights (pr) - Rear facing		1	
		In upper corners at rear under C9 flashers			
		Switched in cab as listed in 50-11-0900. They will also be activated with	the		
		reverse gear of the transmission as requested by e-mail on 05.06.2019			
		These lights cannot be managed to shed as they are required for ULC and t	hey		
		will be Whelen C9SL.			
50-31-6017	U	Whelen C9SL LED Scene lights (pr) - Right side		1	
30-31-0011	U	In upper corners of side		<b>'</b>	
		Switched in cab			
		These lights can be managed to shed and they will be Whelen C9SL.			
		The state of the s			
50-31-6560		Ground lighting (LED Lumabar) - 4 door chassis		1	MTL
		Switched when park brake is set and also activated with corresponding t	urn		
		signal			
50.04.0570		On Alleten AED Landon Andrew About		_	A 4 T 1
50-31-6570		Ground lighting (LED Lumabar) - side mount body The lights under rear step are to be located at 45 degree on the rear corners		7	MTL
		the step.	o OI		
		Switched when park brake is set and also activated with corresponding t	urn		
		signal	u111		
		g			
50-31-6595	U	Extra ground lighting - LED Lumabar		1	
		One each side just ahead of rear wheels			
		One in center under rear step			
		Switched when park brake is set and also activated with corresponding t	urn		
		signal			
		SOPT #590 - Truck specific			
E0 25 0500	c	Customar supplied / Matalfah installed radio assimment		1	MTL
50-35-0500	S	Customer supplied / Metalfab installed radio equipment Supply power and ground wires in console or have 12-volts easily accessible	o in	1	IVI I L
		the console.	C 111		
		The department will install their own Kenwood NX5700 radio after the deliver	<b>/</b>		
		Power through the master disconnect switch unless otherwise specified.			
		Metalfab will install the Motorola speaker and microphone that were provided	d by		
		Carrier and logged into inventory on 03.21.2019. Carrier also supplied cables	for		
		the speaker and mic that Metalfab will run from the pump house to the con-			
		20.31.7500.			
50.05.0500	_	VIII automa hann anntana a l'al			147
50-35-0560	S	VHF antenna base - customer supplied		7	MTL
		Install the antenna base supplied by Carrier and run cable to console area.			

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PART NO	S	DESCRIPTION	QTY	Y	ID
		The department will hook up to radio after delivery. The antenna base will installed behind the light bar 1/2 way to the back of the cab and 1/2 way le	l be ft to		
		right of the cab.	11 10		
50-99-10AA	U	Hose bed cover lights - LED - 4 x 40" Lumabars		1	
		Switched when park brake is set.			
		SOPT #209			
51-31-28AA	U	Kussmaul 450-3000-0 Inverter - 3000 Watt		1	
		***To be installed after ULC***			
		A Kussmaul 3000 watt inverter to be installed (Model 450-3000-0) SOPT #341a - Truck specific			
		The inverter will be installed in the R1 compartment upper forward side wall	and		
		will be wired to one (1) outlet in the L1 compartment (refer to 20-51-621B).			
51-31-4500		Dielectric strength test for line voltage system		1	MTL
60-10-1400		BODY Single axle extruded aluminum body		1	MTL MTL
60-10-15AA	U	1" drop on lower edge of compartment floor - sweep out type		1	IVIIL
		SOPT #1236			
60-10-4100		No "beavertail" rear step supports		1	MTL
60-10-4600		Painted fender surround E			MTL
60-10-4770		Removable stainless steel fender trim - single axle E		1	MTL
60-10-5400		> Diamondback pumphouse steps ENG. NOTE:		1	MTL
		Maximum height of step is 24" from ground			
60-10-5430		> Diamondback 19" rear step		1	MTL
00-10-5430		ENG. NOTE:		'	IVIIL
		Maximum height of rear step is 24" from ground			
60-10-6500		Bolt on extruded aluminum rub rail E		1	MTL
60-11-0300		> Front left side compartments full height E		1	MTL
		ENG. NOTE:			
		Specify critical dimensions in shop note			
60-11-0700		> Front right side compartments full height E		1	MTL
		ENG. NOTE: Specify critical dimensions in shop note			
		Specify chilical dimensions in shop hote			
60-11-1000	S	> Rear left side compartments full height		1	MTL
		ENG. NOTE: Specify critical dimensions in shop note			
		opedity chilical difficults in shop hote			
		There will be a 600lb tray at the bottom of the compartment, a fixed shelf at			
		depth change and a shallow adjustable shelf in the upper portion of compartment. The customer supplied fan that was originally being stored in	the		
		compartment has moved to the R4 compartment. As requested by Rod Har	ris		
		by e-mail on 05.31.2019.			
60-11-1400	S	> Rear right side compartments full height		1	MTL
		ENG. NOTE:			
		Specify critical dimensions in shop note			
		There will be a portable pump stored in this compartment and it measures	25"		
		tall x 28" x 23". It will be stored beside the rolled hose and interlocking tile			
		not be required under the fan. As requested by Rod Harris by e-mail 05.31.2019.	OII		
00 44 00 00					
60-11-2000		> High side compartment (over 18") each ENG. NOTE:		3	MTL
		Specify critical dimensions in shop note			
		Specify type of door			
		Specify flip up or drop down Specify which side of body			
		Openity willori side of body			

08/08/2019		PERCEIPTION	OTV		Page 10
PART NO	S	DESCRIPTION One left side, two right side	QTY		ID
60-11-3100 60-11-5500		No rear compartment E Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pir point			MTL MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pir point		4	MTL
60-11-5640	S	Drip pan under rollup door roll (each) - L1 compartment only L1 compartment only - standard Metalfab drip tray	,	1	MTL
60-11-5655	U	Amdor pull straps - Flex-HD for L2, R2 and R3 doors Order with doors SOPT #1114	;	3	
60-11-5660	U	Amdor pull straps - Flex - HD for L1, L3, R1 and R4 doors Order with doors SOPT #1114	4	4	
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	,	1	MTL
60-31-5500	S	Steps at rear of body (folding) with LED lights Maximum height between steps is 18"	•	1	MTL
60-31-5600	S	Steps and grab handles at front of body next to pump panel  Maximum height between steps is 18". There will be one (1) on the front of the bunder the extenda light and one (1) under the speedlay - each side of the body.		1	MTL
60-31-5800	S	Intermediate step at rear - Maximum 18" down from hose bed Stepping surface is diamond back aluminum.	•	1	MTL
60-31-6500	S	Compartment matting - Interlocking tile Interlocking tile is not required in the sliding tray 60-31-8700 in the compartment. The fan and hose roll storage require the maximum amoun space as requested by Rod Harris by e-mail 05.31.2019.	R4	1	MTL
60-31-7900	U	Unistruts in compartment R2 and R3  There will be unistruts installed in the R2 and R3 compartments for the fut installation of shelving as requested by Rod Harris on 05.31.2019 by e-mail SOPT 271		2	
60-31-8006	U	BA bottle compt (ea)-fender well The SCBA bottle measures 25" long x 8" diameter.	4	4	
60-31-83AA	U	PAC tool board  There will be PAC tool board material installed in the following locations:  Board #1 - Upper portion of the front left side compartment (L1) beside the purpanel  Board #2 - High side compartment over the left side rear wheels (L2). It will approximately 50" wide to allow storage of an SCBA beside it.	mp	2	
		, ,,			
60-31-8400	S	Fixed vertical partition There will be a vertical partition at the following locations:  1. In the front left side compartment (L1) to seperate the Pump Operator's panel a rest of compartment.  2. In the front right side compartment (R1) in the shallow portion of the compartment will be 25" from the right side wall.	and	2	MTL

08/08/2019				,	Page 11
PART NO	S	DESCRIPTION	QTY		ID
60-31-8700	S	> Sliding tray (ea) - 400 pound capacity with open / close latches ENG. NOTE:		1	MTL
		Specify location			
		Specify location			
		The tray will be installed in the rear right side compartment (R4).			
		Reflective stripe is applied on the exposed edge for visibility when	the		
		compartment door is open.			
		Interlocking tiles are not required under the fan or under the hose storage	as		
		requested by Rod Harris by e-mail on 05.31.2019.			
60-31-8800		Sliding tray (as) 600 naund consoity		1	MTL
00-31-0000	S	> Sliding tray (ea) - 600 pound capacity ENG. NOTE:		1	IVI I L
		Specify location			
		Spoony location			
		The tray will be installed in the rear left side compartment (L3).			
		***Hardware requires 3-1/2" of compartment height			
		Reflective stripe is applied on the exposed edge for visibility when the compartn	ent		
		door is open			
60 24 0600	_	Adjustable abolf (as)			MTI
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE:		4	MTL
		Specify location			
		opeany location			
		The location of the adjustable shelves will be:			
		Adjustable shelf #1 - Front left side compartment (L1) - full depth			
		Adjustable shelf #2 - Rear left side compartment (L3) - shallow depth			
		Adjustable shelf #3 - Front right side compartment (R1) - shallow depth rearward	of		
		fixed partition 60-31-8400			
		Adjustable shelf #4 - Rear right side compartment (R4) - shallow depth	4		
		Reflective stripe is applied on the exposed edge for visibility when the compartness dear is applied.	ient		
		door is open			
60-31-97CC	U	Fixed shelves		7	
		There will be seven (7) fixed shelves installed at the following locations:			
		Shelf #1 - Front left side compartment (L1) at compartment depth change			
		Shelf #2 - Rear left side compartment (L3) at compartment depth change			
		Shelf #3 - Front right side compartment (R1) at compartment depth change			
		Shelf #4 - Rear right side compartment (R4) at compartment depth change			
		Shelf #5 - Front right side compartment (R1) full depth at above rolled hose Shelf #6 - Front right side compartment (R1) full depth at above strainer storage			
			no r		
		Shelf #7 - Rear right side compartment (R4) at above the rolled hose for a custor supplied hydrant valve.	IICI		
		Reflective stripe is applied on the exposed edgefor visibility when the compartment	ent		
		door is open.			
60-32-7500		Hose bed - aluminum		1	MTL
		Main hose bed expected capacity is as follows; 600' - 100 mm hose			
		300' - 65 mm hose			
		300 - 03 Hilli 1103C			
60-33-0000		Paint exterior - Imron Elite		1	MTL
		*** Paint code and colour red to match red on cab			
60-33-0200		Undercoat vehicle with KROWN rust protection			MTL
60-33-0600		Chassis wheels not painted			MTL
60-33-1000 60-33-1500		Paint pump and plumbing job colour Buffed finish compartment interior		1	MTL MTL
60-33-1300	S	Lettering - as per Customer's requirements		1	MTL
30-00-2000	3	*** Vinyl letters, Fire Department to provide details on location and text.			
		Hanover Fire Department sized to fit Freightliner door			
		Door crest to be supplied by Carrier and will be sized at final inspection. Wi	ll be		
		installed on crew door			
		There will be an "E-10" approximately 12" high in red reflective installed on	the		
		lower part of the L3 and R4 doors.			
		Paint break to be covered with 1/8" black - 1/4" gold - 1/8" black pinstripe			
		"WORKING SMOKE ALARMS SAVES LIVES" above compartment tops			

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PART NO	S	DESCRIPTION	QTY	Y	ID
		Truck number to be determined See pictures F:/Data/Jacques/Current projects/Hanover/lettering			
60-33-3300	S	Reflective stripe - to match existing fleet		1	MTL
00-33-3300	3	50% of perimeter each side and 25% of perimeter front		,	WIL
		Reflective stripe to be 4" gold reflective with 1/8" black pinstripe above	and		
		below with " Z " pattern up L1 and R1			
		p			
60-33-3310		Reflective stripe - red and yellow chevron at rear		1	MTL
00 00 0010		Minimum 50% of rear vertical surface		-	
60-33-3600		Reflective stripe - inside entry doors		1	MTL
		96 square inches minimum inside each cab entry door			
60 22 4000	_	Find towns for an addition Dad		4	MTL
60-33-4000	S	End tarps for speedlays - Red Held in place with 1/4 turn fasteners on top and shock cords on the bottom.		7	WIL
		neid in place with 1/4 turn lasteners on top and shock cords on the bottom.			
60-33-5000	S	Aluminum cover over hose bed with end tarps - RED		1	MTL
00 00 0000		Doors to be wired to the door ajar warning light in cab			
		Tarps to be red in color complete with 1/4 turn fasteners on top and shock c	ords		
		below.			
		The aluminum covers will be supported by a fix hose bed divider.			
	_				
60-40-5500	S	Suction hose tube (each) with door	4	4	MTL
		Two (2) in body under tee of tank for 6" x 10' suction hoses 80-11-5000 and (2) upper LS of body for Customers 4" suction hoses.	two		
		Door ajar switch required			
		Customer specified OA length of 4" suction hoses to be 10' (120") and	the		
		measurement across the long handles on the swivel coupling is 12".			
		The right side 6" suction hose tube will be 16" longer than the suction I	iose		
		80-11-5000 to allow the customer supplied barrel strainer to stay connected.			
		customer supplied barrel strainer measures 16" long.			
60 40 0004	_	Tube manual for monte tout through tout with door			NAT!
60-40-9001	S	> Tube mount for porta tank through tank with door ENG. NOTE:		1	MTL
		Specify location, ladders to be installed in this tube, complete dimensions of ladders	are if		
		user supplied	10 11		
		Rear access with a drop down smooth plate door with "D" handle.			
		Door ajar switch required			
		To house the 1500 gallon portable tank 80-15-0500			
60-41-1000	S	Pike Pole tube		3	MTL
		Incorporated with the suction hose tubes in the upper LS of body.			
		To house 4', 6, and 8' New York style pike poles with "D" handles, 80-99-2	500,		
		80-99-26AA, and 20-99-27AA respectively.			
60-41-1500		Attic ladder tube with rear door		1	MTL
00 41 1000		Incorporated with the suction hose tubes in the upper LS of body.			
		To house the 10' attic ladder 80-14-8500.			
60-41-9500		> Zico Horizontal Ladder Access system		1	MTL
		ENG. NOTE:			
		Specify mounting location desired.			
		If ladder(s) are customer supplied, specify overall length and width, width betwee side rails, rung spacing; also specify ladder brand and model	en		
		side rails, ruriy spacifiy, also specify ladder braffu allu filoder			
		Include HLAS-OS optional stop			
		To be wired so only operable when park brake is engaged.			
		Flashing lights and reflective tape required at front and rear to indicate any areas	that		
		protrude beyond the body.			
60-41-9510		ZICO HLAS switched at rear above tail light		1	MTL
		Switch is located on same side as electric rack			

08/08/2019		PERCENTION		<b>,</b>	Page 13
PART NO 60-99-05AA	S	DESCRIPTION	QT'	-	ID
60-99-05AA	U	Low level strainer storage  There will be a storage in the front right side compartment that will hold fou low level strainers that measure 17" wide x 13-1/2" high each. The final lay was approved by Rod Harris by e-mail on 05.31.2019.		1	
60-99-10AA	U	Rolled hose slots There will be rolled hose slots at the following locations: Four (4) in the front right side compartment (R1) 3-1/2" each slot x 22" high Two (2) in the rear right side compartment on the pull out tray (R4) - 7-1/2" e slot by 16-1/8" high. The slots will not cover the first 4" of the tray to allow hose couplings to lay there (they are wider than the hose) A third rolled hose slot will be installed under the fixed shelf in the compartment above the customer supplied fan. The slot will measure 16-3 wide by 4-1/2" high. One (1) hose will be stored in a compartment and restrained by Velcro and (2) footman loops. The department will determine the location at delivery Carrier will install.	the R4 3/8" two	7	
		The layout was approved by Rod Harris by e-mail on 05.31.2019.			
		INSTRUMENTATION			MTL
70-11-0000		Warning Label on Pump Operator's Panel		1	MTL
70-11-0500		Side mount instrument panel  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
		position			
70-11-1000		Black zolatone 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	S	Colour coded tags - Metric  1-3/4" = 45mm  2-1/2" = 65mm  4" = 100mm 6" = 150mm  Special color codes were requested by e-mail on 04.06.2019 and will be follows:  Speedlay #1 - Orange Speedlay #2 - Red Rear 2.5" (65mm) - Green Front trashline - Blue Monitor - Purple Right side suction - Maroon along with labels for electric MIV 4" (100 mm) Right side discharge - White 2.5" (65mm) Right side discharge - Yellow 2.5" (65mm) Left side discharge - Black	as	1	MTL
70-11-4000 70-11-4100 70-11-5100		Stainless steel side panel hood right side Stainless steel side panel hood left side Open storage at rear top of pump house Lighting required to meet ULC - switched when park brake is set. Install drains in front corners of floor with tubes down through pump house.		1 1 1	MTL MTL MTL
70-11-5200	U	End doors on top of pump house There will be an end door on the right side of the pump house top dunnage. SO 146	PT	1	
70-11-52AA	U	Hinged cover on top of pump house There will be one (1) door on top of the pump house. There will be a cutout on the side corner to allow the monitor to be deployed without opening the cover.  SOPT 610	left	1	

Total   Tota	08/08/2019			0=\	Page 14
No opening dimension less than 18"  70-11-75AA U Heat pan - extreme weather type SOPT #575  70-11-8000 Heater in pump compartment Switch for heater is located on the left side pump operators panel.  70-11-8000 U Rubber seal around suction and discharge opening on panel SOPT #483  70-20-0500 S 4-1/2" compound gauge - dual face 0-400 To be within 8" of each other - edge to edge 70-20-1500 S 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.  70-20-2500 Primer control Additional Primer control For the pre-primers for the Right side and rear suction inlets.  70-20-3200 FRC Pump Boss Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.  70-20-3500 Electric water level gauge on pump panel. Class One Remote PSTAMK water level indicators each side, rear with driver E interlock with park brake so powered only when the park brake is set.  70-20-7500 Test gauge panel Mount below the compound gauges for proper draining  70-20-7500 Heat exchanger control valve Pump cooler control valve Co-21-5500 Panel readout for Battery Conditioner Located in left side cab step area.  ACCESSORIES  1 MTL  ACCESSORIES 1 MTL  MTL  ACCESSORIES 1 MTL  ACCESSORIES 1 MTL  ACCESSORIES 1 MTL  Tube mounted  80-11-5000 6" x 10" lightweight suction hose (ea) Tube mounted  80-13-0500 Rubber mallet Shipped loose, not mounted. Customer will mount.  80-13-0500 S Axe, flat head, fibreglass handle only There will be an axe shipped loose with no bracket.  80-13-0500 S 24'2 section extension ladder PEL 24  1 MTL  80-14-0500 S 24'2 section extension ladder PEL 24	PART NO	S	DESCRIPTION	QTY	ID
1	/0-11-5500	S	No opening dimension less than 18"	1	MIL
To-11-8000   Heater in pump compartment   Switch for heater is located on the left side pump operators panel.   1   MTL			. •		
To-11-8000   Heater in pump compartment Switch for heater is located on the left side pump operators panel.   To-11-8200   U Rubber seal around suction and discharge opening on panel SOPT #483   To-20-0500   S 4-1/2" compound gauge - dual face 0-400   To be within 8" of each other - edge to edge   To-20-1500   S 2-1/2" pressure gauge - dual face 0-400   Gauge to be within 8" of each other - edge to fedge   To-20-2500   Primer control Gauge to be no more than 6" from edge of the gauge to the center of the control.   To-20-2501   Additional Primer control Por the pre-primers for the Right side and rear suction inlets.   The pre-primers for the Right side and rear suction inlets.   To-20-3200   FRC Pump Boss Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.   Throttle can be no lower than 42" and no higher than 72" from operator's standing position.   To-20-3500   Electric water level gauge on pump panel. Class One   Test gauge panel Mount below the compound gauges for proper draining   To-20-3600   Test gauge panel Mount below the compound gauges for proper draining   To-20-7500   Heat exchanger control valve   To-20-7500   Heat exchanger control valve   To-20-7500   Pump cooler control valve   To-21-7500   Electric Foam Level gauge include access to and room for sender in front of body and back of pump house   To-21-5500   Panel readout for Battery Conditioner   Coated in left side cab step area.   ACCESSORIES   To MTL Tube mounted   To-20-3000   The work of the body where space permits.   To Tube mounted   Throttle mounted   Th	70-11-75AA	U		1	
Switch for heater is located on the left side pump operators panel.			301 1 #313		
Switch for heater is located on the left side pump operators panel.	70-11-8000		Heater in pump compartment	1	MTL
SOPT #483   To 20-0500   S   4-1/2" compound gauge - dual face 0-400   To be within 8" of each other - edge to edge   2   MTL	70 11 0000		Switch for heater is located on the left side pump operators panel.	-	
To be within 8" of each other - edge to edge  70-20-1500 S 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.  70-20-2500 Primer control 70-20-2501 Additional Primer control For the pre-primers for the Right side and rear suction inlets.  70-20-3200 FRC Pump Boss Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's stand no position.  70-20-3500 Electric water level gauge on pump panel, Class One Remote PSTANK water level indicators each side, rear with driver E Interlock with park brake so powered only when the park brake is set.  70-20-6500 Test gauge panel Mount below the compound gauges for proper draining  70-20-7500 To-20-7500 Heat exchanger control valve Pump cooler control valve Filectric Foam Level gauge Include access to and room for sender in front of body and back of pump house  80-11-2000 Face the step of the step area.  ACCESSORIES Interlocated in left side cab step area.  ACCESSORIES Tube mounted  80-11-5000 Face Not 10 lightweight suction hose (ea) Tube mounted  80-13-0500 Clare hose wrenches (double) with holder One installed on left side panel, one installed on right side panel and one installed on the rear of the body where space permits.  80-13-4000 S Axe, flat head, fibreglass handle only There will be an axe shipped loose with no bracket.  80-14-0500 S 24'2 section extension ladder PEL 24  80-11-0500 S 24'2 section extension ladder PEL 24	70-11-8200	U		1	
To be within 8" of each other - edge to edge  70-20-1500 S 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.  70-20-2500 Primer control 70-20-2501 Additional Primer control For the pre-primers for the Right side and rear suction inlets.  70-20-3200 FRC Pump Boss Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's stand no position.  70-20-3500 Electric water level gauge on pump panel, Class One Remote PSTANK water level indicators each side, rear with driver E Interlock with park brake so powered only when the park brake is set.  70-20-6500 Test gauge panel Mount below the compound gauges for proper draining  70-20-7500 To-20-7500 Heat exchanger control valve Pump cooler control valve Filectric Foam Level gauge Include access to and room for sender in front of body and back of pump house  80-11-2000 Face the step of the step area.  ACCESSORIES Interlocated in left side cab step area.  ACCESSORIES Tube mounted  80-11-5000 Face Not 10 lightweight suction hose (ea) Tube mounted  80-13-0500 Clare hose wrenches (double) with holder One installed on left side panel, one installed on right side panel and one installed on the rear of the body where space permits.  80-13-4000 S Axe, flat head, fibreglass handle only There will be an axe shipped loose with no bracket.  80-14-0500 S 24'2 section extension ladder PEL 24  80-11-0500 S 24'2 section extension ladder PEL 24	70-20-0500	c	A-1/2" compound gauge - dual face 0-400	2	MTI
Gauge to be no more than 6" from edge of the gauge to the center of the control.  70-20-25001	70-20-0300	3	To be within 8" of each other - edge to edge		WITE
Gauge to be no more than 6" from edge of the gauge to the center of the control.  70-20-25001	70-20-1500	S	2-1/2" pressure gauge - dual face 0-400	8	MTL
Additional Primer control For the pre-primers for the Right side and rear suction inlets.   2 MTL	70 20 1000		Gauge to be no more than 6" from edge of the gauge to the center of the control.		
Additional Primer control For the pre-primers for the Right side and rear suction inlets.   2 MTL	70-20-2500		Primer control	1	МТІ
For the pre-primers for the Right side and rear suction inlets.  FRC Pump Boss Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.  70-20-3500 Electric water level gauge on pump panel, Class One Remote PSTANK water level indicators each side, rear with driver E Interlock with park brake so powered only when the park brake is set.  70-20-3610 Test gauge panel Mount below the compound gauges for proper draining  70-20-7500 Heat exchanger control valve Pump cooler control valve Punp cooler control valve P					
Throttle can be no lower than 42" and no higher than 72" from operator's standing position.  70-20-3500 Electric water level gauge on pump panel, Class One Remote PSTANK water level indicators each side, rear with driver E 1 MTL Interlock with park brake so powered only when the park brake is set.  70-20-6500 Test gauge panel Mount below the compound gauges for proper draining  70-20-7500 Heat exchanger control valve 1 MTL MTL 70-21-1500 S Electric Foam Level gauge 1 MTL MTL 70-21-1500 S Electric Foam Level gauge 1 MTL Include access to and room for sender in front of body and back of pump house  70-21-5500 Panel readout for Battery Conditioner 1 MTL Located in left side cab step area.  ACCESSORIES 1 MTL Tube mounted  80-11-2000 4" x 10' lightweight suction hose (ea) 1 MTL Tube mounted  80-11-5000 6" x 10' lightweight suction hose (ea) 2 MTL Tube mounted  80-13-0500 Rubber mallet Shipped loose, not mounted. Customer will mount.  80-13-1200 Clare hose wrenches (double) with holder One installed on left side panel, one installed on right side panel and one installed on the rear of the body where space permits.  80-13-4000 S Axe, pick head, fibreglass handle only There will be an axe shipped loose with no bracket.  80-14-0500 S 24' 2 section extension ladder PEL 24 1 MTL					
Throttle can be no lower than 42" and no higher than 72" from operator's standing position.  70-20-3500 Electric water level gauge on pump panel, Class One Remote PSTANK water level indicators each side, rear with driver E 1 MTL Interlock with park brake so powered only when the park brake is set.  70-20-6500 Test gauge panel Mount below the compound gauges for proper draining  70-20-7500 Heat exchanger control valve 1 MTL MTL 70-21-1500 S Electric Foam Level gauge 1 MTL MTL 70-21-1500 S Electric Foam Level gauge 1 MTL Include access to and room for sender in front of body and back of pump house  70-21-5500 Panel readout for Battery Conditioner 1 MTL Located in left side cab step area.  ACCESSORIES 1 MTL Tube mounted  80-11-2000 4" x 10' lightweight suction hose (ea) 1 MTL Tube mounted  80-11-5000 6" x 10' lightweight suction hose (ea) 2 MTL Tube mounted  80-13-0500 Rubber mallet Shipped loose, not mounted. Customer will mount.  80-13-1200 Clare hose wrenches (double) with holder One installed on left side panel, one installed on right side panel and one installed on the rear of the body where space permits.  80-13-4000 S Axe, pick head, fibreglass handle only There will be an axe shipped loose with no bracket.  80-14-0500 S 24' 2 section extension ladder PEL 24 1 MTL	70-20-3200		FRC Pump Boss Governor Control	1	МТІ
Remote PSTANK water level indicators each side, rear with driver E Interlock with park brake so powered only when the park brake is set.   1 MTL	70-20-0200		Throttle can be no lower than 42" and no higher than 72" from operator's stand		
Remote PSTANK water level indicators each side, rear with driver E Interlock with park brake so powered only when the park brake is set.   1 MTL	70 20 3500		Flactric water level gauge on numn nanel. Class One	1	МТІ
Interlock with park brake so powered only when the park brake is set.  70-20-6500  Test gauge panel Mount below the compound gauges for proper draining  70-20-7500 Heat exchanger control valve Pump cooler control valve 1 MTL  70-21-1500 S Electric Foam Level gauge 1 MTL  1 Include access to and room for sender in front of body and back of pump house  70-21-5500 Panel readout for Battery Conditioner Located in left side cab step area.  ACCESSORIES 1 MTL  80-11-2000 4" x 10' lightweight suction hose (ea) 1 MTL  80-11-5000 6" x 10' lightweight suction hose (ea) 1 MTL  80-13-0500 Rubber mallet Shipped loose, not mounted. Customer will mount.  80-13-1200 Clare hose wrenches (double) with holder One installed on left side panel, one installed on right side panel and one installed on the rear of the body where space permits.  80-13-4000 S Axe, pick head, fibreglass handle only There will be an axe shipped loose with no bracket.  80-13-4500 S Axe, flat head, fibreglass handle only There will be an axe shipped loose with no bracket.  80-13-4500 S 24' 2 section extension ladder PEL 24 1 MTL			Remote PSTANK water level indicators each side rear with driver F		
Mount below the compound gauges for proper draining  70-20-7500	70-20-3010			,	WII E
Mount below the compound gauges for proper draining  70-20-7500	70-20-6500		Test gauge panel	1	МТІ
70-20-7600 To-20-7600 S Pump cooler control valve Electric Foam Level gauge Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include access to and room for sender in front of body and back of pump house 1 MTL Include acces to an access to and room for sender in front of body and back of pump house 1 MTL Include acces to an accessor to access	70 20 0000				IVITE
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Include access to and room for sender in front of body and back of pump house  70-21-5500  Panel readout for Battery Conditioner Located in left side cab step area.  ACCESSORIES  1 MTL  80-11-2000  4" x 10' lightweight suction hose (ea) 1 Tube mounted  80-11-5000  6" x 10' lightweight suction hose (ea) 1 Tube mounted  1 MTL  80-13-0500  Rubber mallet Shipped loose, not mounted. Customer will mount.  80-13-1200  Clare hose wrenches (double) with holder One installed on left side panel, one installed on right side panel and one installed on the rear of the body where space permits.  80-13-4000  S Axe, pick head, fibreglass handle only There will be an axe shipped loose with no bracket.  80-13-4500  S Axe, flat head, fibreglass handle only There will be an axe shipped loose with no bracket.  80-14-0500  S 24' 2 section extension ladder PEL 24  1 MTL		S		_	
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	JU-1J-4JUU	3		,	141 L
	90 14 0500	c	24' 2 section extension ladder BEL 24	4	MTI
MOUNTED ON THE PERSON	00-14-0300	3		,	IVI I L
			MOUNTAIN ON THE TO THE TOURS		

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PART NO	S	DESCRIPTION	QTY	ID
80-14-5500	S	14' aluminum roof ladder PRL-14	1	MTL
		Mounted on the HLAS 60-41-9500		
80-14-8500		10' aluminum folding attic ladder FL-10	1	MTL
		Tube mounted		
00 45 0500		4500 Levelle in mentable tank. Herely		8471
80-15-0500		1500 I gallon portable tank - Husky Color to be RED. minimum 28 oz reinforced bottom, 2 quick dump/drains.	7	MTL
		Tube mounted.		
		Tube illouilleu.		
80-15-7025	U	6" NHF x 4" Storz 30 degree adapter for RS 6" inlet	1	
00 10 7020		Kochek SKE4T6L, Metalfab part number 1501827	•	
		Install on right side 6" inlet, complete with 4" Storz reducing cap 80-99-14	AA	
		(IPO 6" long handle CP cap).		
		SOPT #496 - Truck specific		
		·		
80-17-0500	S	20# dry chemical fire extinguisher and mount	1	MTL
		The extinguisher and bracket will be shipped loose.		
	_			
80-18-0500	S	SCBA bracket with strap - compt mount	2	MTL
		There will be two (2) SCBA brackets supplied:	ord	
		1. The 1st bracket will be installed in the L2 compartment beside the PAC bo	ard	
		60-31-83AA and it will hold a complete SCBA unit.  2. The second bracket will be shipped loose for customer installation after delivery.		
		2. The second bracket will be shipped loose for customer installation after delivery.		
80-18-0680	U	Supply/install Bostrom SecureALL SCBA brackets in Bostrom SecureALL	4	
00-10-000	•	ready seats	7	
		SOPT #959a		
80-19-0500	S	Large folding wheel chock - aluminum (ea)	2	MTL
		The wheel chocks will be shipped loose without brackets.		
80-99-05AA	U	Zico UHH-1 Helmet holder - mounted (ea)	5	
		Part number 1562378		
		Two (2) on vertical plate behind driver like Muskoka Lakes, One on p		
		between outboard and middle crew seat up high (no rear window, so in location), other two other two to go in compartments under crew doors.	tnis	
		SOPT #426		
		Customer confirmed the mounting locations by e-mail 12.12.2018		
		oustomer commined the mounting locations by e-mail 12.12.2010		
80-99-10AA	U	MSA Evolution 6000 TIC and truck charger - mounted in cab	1	
		MSA Evolution 6000 Basic TIC - MSA part number 10145939 and		
		Vehicle Kit - MSA part number 10145771		
		TIC and vehicle charger mounted on back of officer seat like Muskoka Lakes		
		SOPT #939 and quotation in file - Truck specific		
80-99-14AA	U	4" Storz x 2-1/2" CSA male with cap	1	
		Installed on 80-15-7025 adapter		
		Kochek S36S425, Metalfab part number 1501278 Vented CP Cap 1500291		
		SOPT #1089		
		OO! 1 π 1003		
80-99-20AA	U	Vulcan Streamlight LED hand lights (ea) - installed on the back wall of	3	
20 00 20/1/4		console		
		SOPT #393, Metalfab part number 1521631		
		Hand lights and chargers Installed and wired 12-volts on the back of the cons	ole.	
		Customer specified preferred location by e-mail 12.12.2018.		
80-99-25AA	U	4' fibreglass New York style pike pole with D handle	1	
80-99-26AA	U	6' fibreglass New York style pike pole with D handle	1	
		Tube mounted SOPT #1217		
		ΟΟΙ Ι π1ΔΙΙ		

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PART NO	S		DESCRIPTION	QTY	ID
80-99-27AA	U		8' fibreglass New York style pike pole with D handle Tube mounted	7	
			SOPT #1217		
			00. 1 # 12.11		
80-99-30AA	U	<	Elkhart 8598 electric extender	1	
			Part number 1501350 - 3" Victaulic inlet, 3" Male NPT outlet		
			Include Elkhart 36793600 sensor and harness SOPT #698		
			30P1 #090		
80-99-35AA	U		Elkhart Stinger 2.0 monitor with portable base (4" Storz inlet),	1	
			SM-1250XStream		
			Elkhart 8297-41 Stinger 2.0 upper and base with 4" Storz single inlet (base)		
			Elkhart 8298P truck mount 3" NPT SOPT #407 for the above - Truck specific		
			Elkhart SM-1250XStream Nozzle		
			Engineering to confirm numbers before ordering		
80-99-40AA	U		Box of assorted Stainless Steel fasteners (minimum10lb)	1	
			Include 10 lbs. box of assorted stainless steel fasteners to be used in moun	ting	
			equipment		
80-99-55AA	U	<	4" Storz to 2-1/2" female with CP plug	1	
			Ref SOPT 137 (will have to have CSA threads)	-	
			Shipped loose, not mounted. Customer will mount.		