

Carrier Truck Center Inc. O/A Carrier Centers 645 Athlone Place Woodstock, ON N2S 7V8 The Municipality of North Perth 330 Wallace Avenue North Listowel, ON N4W 1L3

 Exp. Date:
 10/25/2019

 Quote No:
 North Perth Pumper-0028

 Job/Order No:
 21217

 BODY:
 00-10-15

Metalfab Pumper - ULC 05/13

08/31/2021				Page
PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	Change Order J	1	MTL
00-10-1520	U	Metalfab Pumper	1	
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		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2100	S	Plant Inspection Visits - three visits, three representatives - costs by CCEV	1	MTL
	•	Visit #1 - Pre-construction	-	
		Visit #2 - Chassis inspection		
		Visit #3 - Pre-delivery inspection		
00-20-3000	S	No Bonding Requested	1	MTL
00-20-3500	0	Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000	S	Quality System registered to ISO 9001:2015	1	MTL
00-20-4500	0	Fire Apparatus Manufacturers' Association Membership	1	MTL
00-20-4000		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		1	MTL
10-11-1500	3	> ULC Testing - Pumper ENG. NOTE:	1	
		Note in the shop note if the Fire Department wishes to witness the test		
		Pump tested in Litres units (5000 LPM) as discussed at the pre-construct	on	
		meeting of 11.07.2019		
10-11-2100		Maximum length not specified E	1	MTL
10-11-2200		Maximum height not specified E	1	MTL
10-11-2400		Overall length is 30' or more	1	MTL
10-11-2500		General Construction	1	MTL
10-11-3000		Manuals - two copies	1	MTL
10-11-0000		***Two copies of manuals are required.	,	
		Complete listing of OEM part numbers shall be provided.		
		Certification in writing that the chassis has not been used as a tow vehicle	for	
		delivery between the chassis factory and the chassis dealer, or between t	ho	
		chassis dealer and the chassis	lie	
		fabricator to be supplied.		
		labricator to be supplied.		
10-11-2600	ç	> Delivery - FOB Fire Department - by CCEV	1	MTI
10-11-3600	S	ENG. NOTE:	1	NIL
		Note in the shop note if more than 4 hours of training is required		
		Note in the shop hole if more than 4 hours of training is required		
10-11-4300	S	Payment Terms - Chassis and Body NET 30	1	MTL
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements	1	MTL
10-20-1400	3	ENG. NOTE:	1	
		Specify the type of hose and quantity of hose to be carried on the vehicle		
		Specify the type of hose and quantity of hose to be carried on the vehicle		

8/31/2021 PART NO	S	DESCRIPTION	QTY	Pag ID
		The rear hose bed shall have adequate capacity to store;		
		500' 2.5" double jacket nylon hose with attached nozzle.		
		700' of 4" rubber jacket supply hose		
		750' of 1.5" of double jacket hose.		
		Additional weight allowance of 545 lbs.		
		Auditional weight allowance of 545 lbs.		
0-20-2000		Equipment carrying capacity - standard ULC Pumper	1	MTL
		This vehicle is designed to carry the standard ULC miscellaneous equipm	-	
		load of 2500 pounds for a vehicle with more than 250 cubic feet of compartm		
		space.	ont	
		59400.		
		CHASSIS INFORMATION	1	MTL
0-11-1000	S	Chassis supplied by Metalfab - Freightliner M2 106	1	MTL
		Two door chassis, two seating positions		
		41,600 lb GVWR 14,600 lb front axle 27,000 lb rear axle		
		260" wheelbase 194.35" cab to axle 100" rear overhang		
		Cummins L9 350 hp @ 2000 rpm 2200 no load governed rpm		
		1000 lb/ft torque @ 1400 rpm		
		68 MPH Maximum speed		
		Allison 3000 EVS automatic transmission, 5 speed 275 amp alternator		
		Brake lights activated with engine brake (exhaust brake)		
		189 litre fuel tank, LH		
		Auxiliary air tank included		
		ESC and VDR included		
		LED headlights		
		Air horn on hood - include snow shields		
		Color is L0006 white over L1132EB red to match M07-7835		
		Spray outs required and approved by e-mail by Paul Marks 12.16.2019		
		Paint codes are were confirmed by e-mail by Paul Marks 12.16.2019		
		Paint dividing line on cab confirmed by e-mail by Paul Marks 12.16.2019		
		See also 10-11-3000 for letter stating chassis has not been used as a tow vehicle		
		Items added at pre-construction meeting of 11.07.2019		
		Add front shocks		
		Change to DuraBright wheels		
		Change to Automatic moisture ejectors		
		Change to double frame		
		Add power windows without power door locks		
0 44 4500		2012 Emission abassis modifications	4	N ATI
20-11-1500		2013 Emission chassis modifications	1	MTL
0-11-1710	U	Chassis Motor Vehicle Inspection required - by CCEV	1	
0-21-0500		Fluid capacity plate	1	MTL
0-21-0600		Pumping test plate	1	MTL
0-21-1040		Maximum riders sign - 6 persons	1	MTL
0-21-1500		Seat belt warning labels - 2 door chassis	1	MTL
0-21-1520		Helmet warning label - do not wear helmet	6	MTL
0-21-1560	U	Tire Pressure Indicators - Single Axle	1	
		Ship the original valve stem caps back with the completed unit as requested	l at	
		the pre-construction meeting of 11.07.2019		
/ /				
0-21-1600		Apparatus Information Label	1	MTL
		An information label is provided in the chassis cab, visible to the driver, stating:		
		"When manufactured, this vehicle was:		
		** m high		
		** m long		
		** kg GVW		
		Changes in height since the apparatus was manufactured shall be noted on this pla	ate	
		by the Fire Department"		
0-21-2000		Non removable key	1	MTL
0-21-2500		Shifter lock not required E	1	MTL
0-21-3500		Rear step warning label	1	MTL
0-21-3800		Front mudflaps	1	MTL
0-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
0-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
0-01-0200		,		· · · · -

08/31/2021 PART NO	S	DESCRIPTION	QT	Y	Page 3
20-31-0500		Alum tread fuel tank trim, Conv - 2 door		1	MTL
		Vertical trim only, OEM cab steps remain			
		Move lower step even with body rubrail			
20-31-1900	S	Chassis cab painted by chassis OEM		1	MTL
20-31-7500	S	Console in cab		1	MTL
	-	Install Traffic adviser controller (50-11-6600), Customer's radio and wir	ing	-	
		provisions (50-35-0500), and pump shift (30-51-0500) in console.	-		
		Storage area at rear as large as possible with hinged cover and lift and t		_	
		latch provided no partitions required. There will be a second shallow stor compartment with hinged cover towards the officer position.	age		
		Gray Zolatone finish			
		The department will approve the layout prior to building it. As discussed at	the		
		pre-construction meeting of 11.07.2019. The layout was approved by Chief Smith by e-mail on 01.13.2021	Ed		
20-31-7505	S	Stainless glove box holder/dispenser		2	MTL
20-51-1000	J	There will be two (2) glove box holders installed on the front face of the SCBA s	eat	-	
		base in the enclosed crew cab. The holders will be installed vertically between	the		
		outer SCBA seats and will be installed off the floor as much as possible. As reque	sted		
		by Chief Ed Smith by e-mail on 01.13.2021.			
20-41-0500		Intake air shutoff for engine E		1	MTL
20-41-0000		Located on pump operators panel.			
20-41-0900		Auxiliary braking system disabled when pumping		1	MTL
20-41-1100 20-41-1500		Transmission programming - Allison WT Extend exhaust pipe - RS front of rear wheels E		1	MTL MTL
20-41-1500		Engineering to specify exhaust pipe material as required by the chassis manufactu	rer	1	
		Engineering to speerly exhaust pipe material as required by the onassis manualeta	101.		
		Engineering to sign off on the exhaust configuration to make sure it meets the char manufacturer's emission specifications.	sis		
20-41-1900		Battery boost terminals with chassis E		1	MTL
20-41-1900		Included with chassis			
20-41-2000		Chassis batteries remain in OEM location		1	MTL
20-41-2510		Fuel fill at step fuel tank under cab Chassis fuel tank remains in OEM location		1	MTL
20-41-2600 20-41-5010		Rear Tow Hooks - through rear of body E		1	MTL MTL
20-41-0010		In back wall of back compartment with slotted cover plates and rubber gaske	ts.	'	
20-41-52AA	U	Structural steel bumper integrated with rear tailboard		1	
		A structural steel bumper shall be provided on the rear of the apparatus. bumper shall be integrated with the rear tailboard step and shall be well bra			
		to provide high strength and rigid framework. The rear bumper will not be u			
		as a lift point or as a push bumper. The framework can be built off the exis			
		tow hooks stucture as discussed at the pre-construction meeting of 11.07.20	19.		
		Reference 60-10-5450 the rear tailboard step is made of open strut alumin	ım		
		with non slip surface, SOPT in file			
20-51-0710		Master Battery Disconnect included with Freightliner chassis		1	MTL
20-51-2500	•	Back up alarm included with chassis		1	MTL
20-51-3100 20-51-3400	S	Air inlet not requested Protection valve installed for air operated accessories		1	MTL MTL
20-51-3400 20-51-6200	S	> 120 volt 20 A shore line connection		י 5	MTL
_0 01 0200	-	ENG. NOTE:			
		Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet			
		Oton dowd 5 00D dywlaw waarstaala in akaasia aak soot fuuruh			
		Standard 5-20R duplex receptacle in chassis cab, not fused Locations are as follows;			
		Receptacle #1 - placed in a position for the battery conditioner to plug into it.			
		The following outlets shall be powered off the shoreline and the on be	bard		
		generator through the automatic transfer switch;			
		Receptacle #2 - Left rear compartment under cord reel 51-31-4000			

08/31/2021 PART NO	S	DESCRIPTION	ΩTY	Page
	Ū	Receptacle #3 - On one end of radio shelf 60-31-9610		
		Receptacle #4 - On opposite end of radio shelf 60-31-9610		
		Receptacle #5 - On the pump panel area		
		Receptacles to be minimum 12" from floor level to meet ULC requirements		
		As confirmed at the pre-construction meeting of 11.07.2019		
20-51-6600	S	Kussmaul Pump Plus conditioner/compressor	1	MTL
		Battery conditioner located under/behind rear seat in cab		
		Air compressor located in the pump compartment easily accessible from the		
		right side pump access door as approved at the pre-construction meeting of 11.07.2019)†	
20-51-66AA	U	Auto Drain for Kussmaul compressor	1	
	-	The Kussmaul compressor (20-51-6600) will have an auto drain as requested by the fire department by e-mail on 01.24.2020		
20-51-7101	S	Electric System Management - VMUX	1	MTL
20-51-7500		Super Auto eject for 120 v - 20 A with sealed enclosure	1	MTL
		Located in driver's side step area.		
		Minimum 24" from grade to meet ULC.		
20-51-8510	S	Engine compartment light LED	1	MTL
		Switched when park brake is applied.		
20-51-9001	S	Air horns as supplied by chassis OEM	1	MTL
20-31-3001	3	Chassis is supplied with air horns (with snow shields) on cab hood, controlled dual lanyards in cab.		
20 52 0040		Air bern control on numn nonal		
20-52-0010	U	Air horn control on pump panel Located on transverse operators panel. Labeled "AIR HORN"	1	
20-52-1010	U	Gooseneck LED Map light - Federal Littlelite Located on the A-post within easy reach of Officer as discussed at the pre-construction meeting of 11.07.2019 P/N 1032001	1	
		P/N 1032001		
20-52-3500		> Chassis steering wheel lined up by Metalfab E	1	MTL
		ENG. NOTE: Freightliner, Sterling, and Spartan only		
20-52-4000	S	Rear View Camera system		MTL
		Rearview Systems STM5600 with 5.6" colour monitor in cab mounted on a rigi	d	
		bracket on/in dash area.		
		Order monitor with bale mounting holes if possible.		
20-60-0400		Chassis wheelbase does not change	1	MTL
20-61-3500	S	> Enclosed crew cab - aluminum - 4 SCBA seats - 72" int ht	1	MTL
		ENG. NOTE:		
		Add SCBA brackets		
		Specify interior height required - 72" standard		
		A pass through to the driving compartment or an intercom system is required		
		Floor to be non slip embossed aluminum tread plate. Specify interior height required - 72" standard as discussed at the		
		pre-construction meeting of 11.07.2019 A pass through to the driving compartment is provided (ref 20-90-1000) All four seats to be flip up ULLH-EZO SCBA brackets (brackets ref 80-18-0600) Seat/seatbelt sensors required wired to the seat belt indicator in cab. See part # 60-90-6000 for the heater and A/C specs		
20-61-4000		Interior finish - Zolatone gray	1	
20-61-5000	S	Crew cab windows - fixed	1	MTL
		Each side of crew cab by transverse panel, lower section of door, front facing		
		and rear facing transverse windows and rear facing vertical window rear or door opening.	Γ	
				1

08/31/2021 PART NO	S	DESCRIPTION	QTY	Page ID
20-61-5500	S	Crew cab windows - sliding	1	MTL
		Upper section of entry doors and one each side by crew cab seats.		
		Engineering to provide purchasing with ordering information.		
20-90-1000		Sealed pass through cab to body	1	MTL
		Accordion seal around window opening with foam and gray vinyl	-	
20.00.4500	^	> 40 walt now no int to main all string compaction	2	8ATI
20-90-1500	S	> 12 volt power point - terminal strip connection ENG. NOTE:	2	MTL
		Specify location in shop note		
		There will be a 12-volt terminal strip connection ssupplied and installed at the ra		
		shelf in the crew cab 60-31-9610 and in the L3 compartment beside the shoreli		
		20-51-6200. These connections will be wired battery direct to be used to charge customer supplied and installed Thermal Imager. As requested by Chief Ed Smith		
		e-mail on 11.24.2020	Бу	
20-99-05AA	U	Defrost fan in each corner of canopy rear windows - switched on fan - 2 total	1	
		P/N 1130779		
		PUMP AND PLUMBING	1	MTL
30-11-5600	S	Hale QFLO Single stage 1050 IGPM (5000 LPM)	1	MTL
30-12-3300		Mechanical seal for Hale QFLO pump	1	MTL
30-15-0102 30-20-1000		Plumbing - Hale manifold pump TM SS E Valves and controls - top mount panel	1	MTL MTL
30-20-1000		Akron valves specified	1	MTL
30-20-1600		Piping stainless steel - general	1	MTL
30-20-1700	S	1-1/2" thread specifications - NPSH	1	MTL
30-20-1800	S	2-1/2" thread specifications - CSA	1	MTL
30-20-2000		Piping hydrostatic test	1	MTL
30-20-2500		Anodes in suction and discharge piping	1	MTL
		Install one anode on discharge side of pump, one anode on suction side of pump - not use teflon tape or thread sealant.	ao	
		Paint flange silver and mask brass anode before painting for visibility.		
30-21-9510		Tank to Pump 4" Ball valve SS, handwheel control with check valve	1	MTL
20.22.0520		manifold pump	4	AATI
30-22-0530 30-31-4010	S	Tank Fill valve 2" TM SS Suction - 6" each side manifold pump	1	MTL MTL
30-31-7200	3	> Hale master intake suction valve - electric control		MTL
00 01 / 200		ENG. NOTE:	-	
		Required for top mount panels		
		Show location in Shop Note		
		For the left and right eide Cll question inlate		
		For the left and right side 6" suction inlets Electric controls shall be on the transverse pump operators panel.		
		Manual controls shall be adjacent to the valve on the corresponding side pan	els.	
30-32-8530		Suction - 2-1/2" left side SS, TM control, Hale manifold pump	1	MTL
		Bleeder required		
30-32-9030		Suction - 2-1/2" right side SS, TM control, Hale manifold pump	1	MTL
30-32-9030		Bleeder required	'	
30-40-3010		4" right discharge SS, plumbed 4", handwheel, Hale manifold pump	1	MTL
		Bleeder required		
		Piping will be terminated with a 30 degree 4" Storz adapter complete with St	orz	
		сар		
30-41-2030		2-1/2" RS discharge TM SS, bleeder, Hale manifold pump	1	MTL
30-41-2530		2-1/2" LS discharge TM SS, bleeder, Hale manifold pump	2	MTL
30-43-1530	S	2-1/2" rear discharge TM SS, plumbed 2-1/2", bleeder	1	MTL
		Right side under the hose bed and over the suction hose tube (60-40-5500	to	
		match M11-16100 as discussed at the pre-construction meeting of 11.07.2019		

08/31/2021 PART NO	S	DESCRIPTION QT	Y	Page ID
30-44-0730	S	1-1/2" speedlay (each) front of pumphouse TM SS, plumbed 2"		MTL
30-44-0730	3		2	
		Each speedlay is equipped with a removable dual direction sliding hose tray with		
		minimum capacity for 250 feet of 1-3/4" DJ hose and nozzle. Stainless steel		
		rollers on each end are installed. Drop down aluminum treadplate doors with "D"		
		handles are installed to hold the hose in place. Bleeder valve provided on pump		
		panel.		
		The layout was approved by e-mail by Paul Marks on 11.25.2019		
30-44-6530	S	Piping for monitor TM SS, plumbed 3", bleeder	1	MTL
30-44-0530	3		'	
		Piping will be centered side to side in area behind transverse panel, will be		
		mounted on back wall of storage and will not interfere with the ladder rack		
		(60-41-9500).		
		Piping will have customer supplied monitor adapter installed. Adapter arrived at		
		Metalfab on 01.08.2021		
		As discussed at the pre-construction meeting of 11.07.2019		
30-51-0500		Pump shift-Midship air	1	MTL
		***Includes "Pump Engaged" and "OK to Pump" indicator lights in cab	•	
		***Includes "Throttle Ready" indicator light on Pump operating panel		
		includes infolde Ready indicator light on Fullip operating panel		
00 54 0700				N 4 T 1
30-51-0700		Pump Gearbox mounted manual over ride for pump shift E	1	MTL
30-51-1500		Power shift PTO - Automatic transmission	1	MTL
		For the hydraulic generator.		
30-51-1501		> PTO driveshaft E	1	MTL
00 01 1001		ENG. NOTE:	•	
		Quantity of 2 for pumps mounted on 4 door cabs due to length		
		Quantity of 2 for pumps mounted on 4 door cabs due to length		
~~ ~ . ~ ~ . ~				
30-51-6810		FRC InControl Governor/Throttle engine display with buttons	1	MTL
30-51-7000		Suction side relief V/V, manifold pump	2	MTL
30-51-7713		Trident Air Primer 3 barrel 3 location	1	MTL
		Primer is plumbed for the following locations;		
		Location #1 - main pump		
		Location #2 - Left side MIV-E		
		Location #3 - Right side MIV-E		
30-51-7720		Additional air tank for air primer system	1	MTL
		An additional air tank is provided to improve air primer capacity - supplied with		
		the chassis.		
30-51-8100		Heat exchanger included with chassis	1	MTL
30-51-8500		Pump cooler with control valve, check valve	1	MTL
30-51-9100		Thermal Relief Valve with warning light	1	MTL
			1	
30-52-1000		Master drain V/V, 12 port		MTL
30-52-2000	-	Drain valve for foam system header	1	MTL
30-52-4210	S	Foam System - Hypro FoamPro 2002 Single Tank	1	MTL
		The foam system shall be designed such that foam can be supplied to 2 speed		
		lays, rear discharge, right side discharge and one left side discharge (front most		
		unless otherwise specified) as discussed at the pre-construction meeting of		
		11.07.2019		
20 52 0400		Electric feam fill nump with penal nickup	1	MTL
30-52-8100		Electric foam fill pump with panel pickup	1	WIL
		Located on the right side pump panel.		
		Pick up hose will be stored (tube mounted) just inside the right side pump		
		compartment access door.		
30-52-90AA	U	Internal foam flush system FRC #3430-0834	1	
	-	Controls located on transverse pump operators panel.		
		SOPT in file		
00 50 0400		From some state labol adda and fill		
30-52-9100		Foam concentrate label at foam tank fill	1	MTL
30-52-9200		Foam System Instruction Plates	1	MTL
30-52-9400		NFPA Foam System certification test	1	MTL
		WATER AND FOAM TANKS	1	MTL
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
		JI I J (I /	•	

08/31/2021			OTY	Page
PART NO	S	DESCRIPTION	QTY	ID
40-11-2200		Water tank capacity certification (tank manufacturer)	1	
40-11-4500	S	Tank capacity 3200 Litres	1	MTL
		The tank capacity will be noted in Litres as requested at the pre-construction	on	
		meeting of 11.07.2019		
40-12-5000	S	Foam cell - 140 Litres	1	MTL
		The tank capacity will be noted in Litres as requested at the pre-constructi	on	
		meeting of 11.07.2019		
40-21-1000		4" tank to pump connection	1	MTL
40-22-0500		2" tank fill connection	1	MTL
40-23-0500		1" water level gauge connection	1	
40-23-1000		1" foam level gauge connection	1	
40-30-0500		Sump drain valve (3" gate valve) with linkage E	1	
40-30-0300		Located on left side so there is no interface with drive lines and exhaust		
		Located official side so there is no interface with drive lines and exhaust		
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-0400			1	
		Rear dump valve not requested E	1	MTL
40-31-6050		Rear fill not requested E	1	MTL
//		ELECTRICAL	1	
50-11-0300		Base electrical system - multiplex E	1	
50-11-0600		Warning Light Certification	1	
50-11-0700		Low Voltage Electrical system test	1	MTL
50-11-0800		Low Voltage Electrical System Documents	1	MTL
		As required by ULC and NFPA standards		
50-11-0900	S	Rocker switch panel with master warning switch	1	MTL
		Rocker switches are located on the ceiling console of the chassis		
		***Rocker switch assignments:		
		MASTER		
		-LIGHT BAR RED		
		-LIGHT BAR CLEAR		
		-REAR BEACONS		
		-FLASHING WARNING		
		-RIGHT SCENE		
		-REAR FLOODS		
		- TCL wired to Emergency Master		
		-Generator switch - 50-31-4000		
50-11-1460	S	Federal EQ2B 200 watt siren	-	MTL
		The siren will be an EQ2B siren model as discussed at the pre-construction	on	
		meeting of 11.07.2019		
		The siren head control will be installed in the chassis dash and the siren a	mp	
		module will be installed inside the console (20-31-7500) as approved by Chief	Ed	
		Smith on 01.13.2021		
50-11-1620	S >	> Siren speaker,100 watt, in front bumper	2	MTL
	-	ENG. NOTE:	-	
		AS124 speaker 1570860		
		Active speaker for 6666		
		There will be two (2) siren speakers installed in the front bumper and they will have		
		protective cover with the Federal "F" logo to match their last truck M11-16100	as	
		discussed at the pre-construction meeting of 11.07.2019		
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-60AA	U	Whelen Freedom IV series light bar	1	
		There will be a Whelen Freedom IV series light bar supplied and installed on the c	ab	
		roof. The layout of the bar from left to right starting at the back corner will be:		
		Red LED - back left corner		
				1
		Red LED - end of the bar		
		Red LED - end of the bar Red LED - front left corner		
		Red LED - front left corner		

08/31/2021 PART NO	S	DESCRIPTION	QTY	Page 8
FARTNO	0	Red LED	QII	
		Both middle pods are empty		
		Red LED		
		Blank Space / empty pod		
		Red LED		
		White LED		
		Red LED - front right corner		
		Red LED - end of bar Red LED - back right corner		
		Or RRRWR-RR-RWRRR as discussed at the pre-construction meeting	of	
		11.07.2019	51	
50 44 6600	•	Deen LED Troffic Achievenenius linkte souther survey		
50-11-6600	S	Rear LED Traffic Advisor warning lights - surface mount Whelen model TAM83 to fit the available space. Controller installed in		MTL
		20-31-7500 console as discussed at the pre-construction meeting of 11.07.20		
50-11-8600	S	Rear LED beacons-Whelen MCFLED2R (pr) both red		MTL
50-12-8500	S	Front LED flashers (pr)-Whelen red LED 400 LS red / RS blue		
		The front left side flasher will be red and the front right side flasher will be as discussed at the pre-construction meeting of 11.07.2019	blue	
	•			
50-12-8600	S	Rear LED flashers (pr)-Whelen red LED 400 LS red / RS blue The rear left side flasher will be red and the rear right side flasher will be blue discussed at the second metion metion of 14.07.0040		MTL
		discussed at the pre-construction meeting of 11.07.2019		
50-12-8700	S	Front side inter Its (pr) - Whelen red LED 400		MTL
50-12-8800	S	Body side inter its (pr)-Whelen red LED 400		MTL
50-12-8900		> Add'I body side inter Its (pr)-Whelen red LED 400		MTL
	-	ENG. NOTE:		
		Required if distance between front and rear side intersection lights exceeds 25'		
50-21-1110	U	Whelen LED handheld spot light in cab - P46HHS		1
	•	A handheld spot light shall be mounted easily accessible in officer seat area. Will be located on the front of the 20-31-7500 console accessible to the Offi	cor	
		using the magnet supplied with the light as discussed with Chief Ed Smith 01.13.2021		
		P/n 1521712		
		SOPT #1029		
50-21-1505	U	Unity LED rear floods (pr)		1
		Switched in cab and on light head.		
		These lights cannot be managed to shed		
50-21-27AA	U	Command Light - 120 VAC - KL415A-FS-BL		1
00-21-21AA	Ū	An LED 120 Volt AC light tower, Command Light model KL415A-FS with t		
		light option installed on the top of the apparatus ahead of the fill box. Control will be located in the rear left compartment on the right side wall of	the	
		compartment to match M11-16100 as confirmed by Paul Marks by e-mail	on	
		11.25.2019 and Chief Ed Smith by phone on 02.25.2020	011	
		SOPT in file		
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors)		MTL
		ENG. NOTE:		
		Rollup doors only		
50-21-5560	U	Equipment rack not stowed warning light with buzzer and momentary	1	1
		override		
		Located in overhead console over driver's seating position. Bilingual warning label in cab to read:		
		"Do Not Move Apparatus when Light is on"		
		There will be a momentary override to be used in case of a malfunction	as	
		discussed at the pre-construction meeting of 11.07.2019.		
50-21-5600	S	Door Ajar warning light with buzzer and momentary override		MTL
	-	Located in overhead console over driver's seating position.		

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PART NO	S	DESCRIPTION	QTY	1	ID
		"Do Not Move Apparatus when Light is on"			
		There will be a momentary override to be used in case of a malfunction discussed at the pre-construction meeting of 11.07.2019.	as		
		discussed at the pre-constituction meeting of 11.07.2010.			
50-21-8001		Step lights for body steps - 4" LED		1	MTL
		Switched when park brake is set.			
50.04.0440				4	
50-21-8110		Step lights for walkway - 4" LED Switched when park brake is set.		1	MTL
		Switched when park blake is set.			
50-21-8200	S	Step lights for chassis steps - LED		1	MTL
		Switched when park brake is set.			
50.04.0540				4	
50-21-8510	U	Rear clearance lights on rubber arm (pr) There will be a pair of clearance lights on rubber arms supplied and installed on		1	
		rear bumper as discussed at the pre-construction meeting of 11.07.2019. SOPT 81			
			-		
50-21-8600		LED clearance Its and reflectors			MTL
50-21-8800	-	LED intermediate turn signal/clearance/reflector length >30'			MTL
50-22-0700	S	Whelen 64 LED tail/brake-turn-backup module (pr)			MTL
50-31-4000	S	8000 watt hydraulic generator - Harrison Located on top of body near front.		1	MTL
		FROG control located on the pump panel as discussed at the pre-construct	ion		
		meeting of 11.07.2019			
50-31-60BB	U	Scene lights (pr) LED Whelen PCPSM1C		3	
		Located on upper right corners of body sides, controlled by rocker switch in cab. T lights can be managed to shed.	he		
		Located on upper left corners of body sides, controlled by rocker switch in cab.	he		
		lights can be managed to shed.			
		Located on upper back corners of body, controlled by rocker switch in cab and a			
		activate when transmission is placed in reverse gear. The lights can't be managed	l to		
		shed as they are required for rear lighting per ULC.			
		As requested by engineering and approved by Paul Marks by e-mail 01.07.2020			
50-31-6550		Ground lighting (LED Lumabar) - 2 door chassis		1	MTL
		Switched when park brake is set.			
50-31-6580		Ground lighting (LED Lumabar) - top mount body		1	MTL
		Switched when park brake is set.			
50-35-0500	S	Provisions for installation of customer supplied and installed mobile radio		1	MTL
		A radio cutout, power and ground wire are supplied and labeled under	the		
		20-31-7500 console area for Customer to install a Motorola XPR5550e radio (
		included) in the cab of the apparatus. The radio shall be easily accessible f	rom		
		both the driver and officer seating position. Power will be off master switch as discussed at the pre-construction meeting	of		
		11.07.2019			
		Radio NOT included			
		A 6-wire cable shall be installed to to the transverse pump panel mic box a	rea		
		and clearly labeled.			
50-35-0560		VHF antenna with base - commercial chassis		2	MTL
		Located one each side rearward of lightbar unless otherwise specified.		-	
		Customer will cut antenna's to length.			
50.00 4555		Fadaval Tustia Olassian Kabi (1994) alas a basal Ali Tu			
50-99-15AA	U	Federal Traffic Clearing light with chrome bezel - 9"x7" There will be a 9"x7" Federal Traffic Clearing Light (TCL) with chrome bezel supp		1	
		and installed in the front grill. It will be interlocked with the emergency lights, ha			
		decicated switch in 50-11-0900 and interlocked with the park brake. As requested			
		the pre-construction meeting of 11.07.2019 and confirmed by e-mail by Paul Marks			
		01.02.2020.			
		Model LEDTCL97C-W and QL97MC bezel			
51-31-3020	S	> 120 volt wiring for hydraulic generator		1	MTL
	<u> </u>				

08/31/2021 PART NO	S	DESCRIPTION	QTY	Page ID
		Specify number and capacity of circuits, location and complete specifications o	all	
		electrical devices to be installed.		
		Note that Neutral is bonded to chassis ground.		
		Breaker panel will be located in rear left side compartment like M11-16100		
		Circuits will be wired for the following Transfer switch 51-31-3100		
		Cord reel 51-31-4000		
		Command light 50-21-27AA		
		No additional wiring is required as discussed at the pre-construction meetin 11.07.2019	g of	
51-31-3100		> Automatic 110 volt transfer switch	1	MTL
		ENG. NOTE:	-	
		Requires 20-51-75 or 20-51-80 120 volt inlet		
		Wired to the 20-51-6200 receptacles		
51-31-4000	S	> Electric cord reel with 200' x 12/3 cable, lighted box	1	MTL
		ENG. NOTE:		
		Specify receptacles required in junction box		
		Located in the upper rear portion (on right hand side of compartment) of the	left	
		rear side compartment as discussed at the pre-construction meeting	of	
		11.07.2019 Lighted cable box to be mounted and have four (4) dual household outlet	s to	
		match M11-16100		
		Reel must meet ULC standards		
51-31-40AA	U	MD-70 speed controller for Hannay Cord Reel	1	,
		There will be a MD-70 Speed controller installed on the Hannay Cord Re	el	
		(51-31-4000) as requested by Todd Finnie by e-mail on 04.12.2021		
51-31-4500		Dielectric strength test for line voltage system	1	MTL
00 40 4400		BODY	1	
60-10-1400 60-10-4100		Single axle extruded aluminum body No "beavertail" rear step supports	1	
60-10-4600		Painted fender surround E	1	
60-10-4700		Integral aluminum fender trim	1	
60-10-5400		> Diamondback pumphouse steps	1	MTL
		ENG. NOTE: Maximum height of step is 24" from ground		
		Maximum height of step is 24 from ground		
60-10-5450	S	> Diamondback 10" rear step minimum	1	MTL
		ENG. NOTE: Maximum baints of roor atom in 24" from ground		
		Maximum height of rear step is 24" from ground		
		See also 20-41-52AA for steel substructure which will be painted black.		
		The step is to be deep enough so that the Zico Access Ladder is not the furt	hest	
		thing out and is protected. As discussed at the pre-construction meeting 11.07.2019	of	
CO 40 0500	<u>_</u>	Dolf on ordered aluminum with with		A471
60-10-6500	S	Bolt on extruded aluminum rub rail Reflective material in rub rails requested at pre-construction meeting	1 of	MTL
		11.07.2019.	01	
60-11-0300		> Front loft side compartments full beight E		MTL
00-11-0300		> Front left side compartments full height E ENG. NOTE:		WIL
		Specify critical dimensions in shop note		
60 11 0700		> Eront right side compartments full beight E	1	AT1
60-11-0700		> Front right side compartments full height E ENG. NOTE:	1	MTL
				1
		Specify critical dimensions in shop note		

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PART NO	S	DESCRIPTION	QTY		ID
60-11-1000		> Rear left side compartments full height E		1	MTL
		ENG. NOTE: Specify gritical dimonsions in shop note			
		Specify critical dimensions in shop note			
60-11-1400		> Rear right side compartments full height E		1	MTL
••••		ENG. NOTE:		it	
		Specify critical dimensions in shop note			
60-11-2000	S	> High side compartment (over 18") each		2	MTL
		ENG. NOTE:			
		Specify critical dimensions in shop note Specify type of door			!
		Specify type of door Specify flip up or drop down			
		Specify which side of body			
		opeony which due of body			
		There will be a compartment over the rear wheels on the left side. There will be	eа		
		compartment over the rear wheels on the right side that will be rearward of the Z	ico		
		HLAS ladder rack (60-41-9500) and will measure minimum 52" wide to allow t	the		
		installation of four (4) SCBA brackets on unistruts (80-18-0600). As discussed at	the		
		pre-construction meeting of 11.07.2019			ļ
00 44 2200		- Full Usight Deer comportment	1	4	MTL
60-11-3200		> Full Height Rear compartment ENG. NOTE:		1	NIL
		Specify critical dimensions in shop note			
60-11-5500	S	Rollup door - standard height		2	MTL
•• • • • • • • • • • • • • • • • • • • •	-	Natural aluminum finish			
		Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pin	ch		
		point			
		The doors will cover the L2 and R2 compartments as discussed at the	ne		
		pre-construction meeting of 11.07.2019			
60-11-5520		Rollup door - full height		5	MTL
00-11-3520		Natural aluminum finish		5	
		Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pin	ch		
		point			
		pont			
60-11-5656	U	Amdor pull straps - Flex - HD - L2 and R2		2	
		There will be Amdor Flex HD straps ordered with the rollup doors.			
60-11-5660	U	Amdor pull straps - Flex - HD - L1, L3, R1 and R3	()	4	
		There will be Amdor Flex HD straps ordered with the rollup doors.			
60-31-4100		Extruded aluminum handrails		1	MTL
00-31-4100		Minimum 2" clearance from handrail to any surface		1	
60-31-5000		Zico access Ladder at rear of unit		1	MTL
••••		Minimum 7" clearance between rung and any obstruction.			
		Requires switch wired to the Equipment not stowed warning light in cat	þ to		
		indicate if ladder is stowed correctly.			
	•			_	
60-31-5500	S	Steps at rear of body (folding) - 2 on right side only - with LED lights		1	MTL
		Maximum height between steps is 18" There will only be two (2) required on the right side rear of the body	22		
		discussed at the pre-construction meeting of 11.07.2019	as		
		discussed at the pre-construction meeting of 11.01.2010			
60-31-5600		Steps and grab handles at front of body next to pump panel		1	MTL
		Maximum height between steps is 18"			
		° .			
60-31-5800	S	Special step over rear compartment		1	MTL
		There will be a step supplied and installed under the hose bed and above the tra			
		bar (50-11-6600) and camera (20-52-4000) to help transitioning from the Zico Acce			
		Ladder (60-31-5000) and hose bed. As discussed at the pre-construction meeting	of		
		11.07.2019			
			1 4		

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PART NO	S	DESCRIPTION	QT		ID
60-31-6500	S	Compartment matting - plastic interlocking tile			MTL
60-31-7900	U	Adjustable shelf tracking in all compartments		1	
60-31-8004	U	Triple SCBA bottle storage		4	
		There will be four (4) triple bottle storage supplied and installed on the unit. There			
		be two (2) installed in the rear left side fender well and two (2) installed in the right			
		rear fender well. There will be a door ajar switch on each door and each tube will ha			
		a secondary restraint strap for a bottle with a 4.5" neck - see picture of bottle			
		F:/Data/Jacques/Current project/North Perth/Pictures. The bottle lenght will be 23"			
		discussed at the pre-construction meeting of 11.07.2019 and confirmed by e-mail	by		
		Pual Marks on 01.02.2020			
60-31-8210	S	> Sliding vertical tool board - open / closed latch		2	MTL
		ENG. NOTE:			
		Specify location			
		Left rear side compartment - to the left of the cord reel 51-31-4000 li	(e		
		M11-16100 and spacing to be the same. As confirmed by Paul Marks by e-m	ail		
		on 01.02.2020			
		White reflective stripe is applied on the exposed edge for visibility when	the		
		compartment door is open.			
60-31-822A	U	Price Adjustment		1	
60-31-8400	S	Fixed vertical partition		1	MTL
		A vertical partition will be installed the rear left side compartment beside the pull ou	to ol		
		board 60-31-8210 to support adjustable shelves 60-31-9600 to match M11-16100	IS		
		confirmed by Paul Marks by e-mail on 11.25.2019			
60-31-8800	S	> Sliding tray (ea) - 600 pound capacity		4	MTL
		ENG. NOTE:			
		Specify location			
		***Hardware requires 3-1/2" of compartment height			
		Reflective stripe is applied on the exposed edge for visibility when the compartm	ent		
		door is open			
		Installed in the following compartments at floor level:			
		Tray #1 - Right side front compartment (R1)			
		Tray #2 - Right side rear compartment (R3)			
		Tray #3 - Back compartment (B1)			
		Tray #4 - Front left side compartment (L1)			
		As discussed in telephone conversation between Jacques Pelletier and Chief	Ed		
		Smith on 01.23.2020			
60-31-9000	S	> Tip down tray - 30 degree, 250 pound capacity - Steel		1	MTL
		ENG. NOTE:			
		Specify location			
		White reflective stripe is applied on the exposed edge for visibility when	ine		
		compartment door is open			
		Installed in the left side compartment over the rear wheels (L2)		_	
		The sliding hardware will be steel to match M12-16100 and be able to be	/2"		
		wide. As discussed wit Chief Ed Smith by phone on 10.21.2020			
60.24.0600	<u> </u>	Adjustable shalf (as)		10	NATI
60-31-9600	S	> Adjustable shelf (ea)	1	3	MTL
		ENG. NOTE:			
		Specify location			
		Reflective stripe is applied on the exposed edge for visibility when t	he		
		compartment door is open	ne		
		Shelf #1 - L1 / Full Depth			
		Shelf #2 - L1 / Full Depth			
		Shelf #3 - L1 / Full Depth Shelf #4 - L3 / Full Depth - under cord reel			
		Sueu #4 - L3 / FUIL Depth - Under Cord reel			
		Shelf #5 - L3 / Full Depth - under cord reel			
		Shelf #5 - L3 / Full Depth - under cord reel Shelf #6 - R3 / Shallow Depth			
		Shelf #5 - L3 / Full Depth - under cord reel			

8/31/2021 PART NO	S	DESCRIPTION	QTY	Page ID
		Shelf #9 - Back / Full Depth	~	
		Shelf #10 - R1 / Shallow Depth		
		Shelf #11 - R1 / Full Depth		
		Shelf #12 - R3 / Full depth		
		Shelf #13 - Back / Full depth		
		As discussed at the pre-construction meeting of 11.07.2019 and confirmed	by	
		e-mail by Paul Marks on 01.24.2020 Added 13th shelf in back compartment as per discussion with Chief Ed Smith	by	
		phone on 02.25.2020	Бу	
	•			
60-31-9610	S	> Radio shelf for crew cab interior (ea)	1	MTL
		ENG. NOTE:		
		Specify location		
		There will be a shelf installed above the pass through 20-90-1000 that measur	es	
		approximately 51" wide x 8" deep. As discussed at the pre-construction meeting		
		11.07.2019		
~~ ~~ ~~~~	•			
60-32-3560	S	Three adjustable hose divider (each) and one fixed to hose bed covers	1	MTL
		<i>support</i> Hand hold required in end		
60-32-7500	S	Hose bed - aluminum	1	MTL
		The hose bed surface will be as big as possible. The generator will me		
		towards the left side as much as possible to allow a full lenght hose lay - this	will	
		bring hose to the edge of the light tower area. The left side hose lay will exten	d to	
		the area beside the water fill tower - this will bring hose to the edge of	the	
		generator area.		
		As discussed with Chief Ed Smith by phone on 02.25.2020.		
60-33-0000	S	Paint exterior - Imron Elite - body red, canopy white over red	1	MTL
	U	The crew cab shall be painted white over red - paint dividing line shall be in	-	
		with the dividing line on the cab and sweep up to the top of the pump house		
		New London M16-18194 as discussed at the pre-construction meeting		
		11.07.2019.		
		Body shall be paint single color red to match the red on the cab.		
60-33-0200		Underseat vehicle with KPOWN rulet protection	1	MTI
60-33-0200		Undercoat vehicle with KROWN rust protection Chassis wheels not painted	1	MTL MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1600		Special paint compartment interior - gray zolatone E	1	MTL
		The compartment interiors are finished with a gray textured paint for c	-	
		resistance. Shelves, trays and hardware are left natural aluminum.	1	
	-			
60-33-2200	S	Lettering - 80 letters up to 3" tall - 3 colour	1	MTL
		*** Vinyl letters, Fire Department to provide details on location and text. Layout Drawing approved by customer		
		Layout Drawing approved by customer Lettering will match M11-16100 where possible. They will be numbered	as	
		follows:	u3	
		Pumper 1 - Atwood Unit # 22		
		Pumper 2 - Monkton Unit # 32		
		·	in	
		F:/Data/Jacques/Current Project/North Perth/Pictures		
		Lettering layout drawing approved by customer March 21-2021		
60-33-3300	c	Poflactiva string - par Customor's requirements	1	MTL
00-33-3300	S	<i>Reflective stripe - per Customer's requirements</i> 50% of perimeter each side and 25% of perimeter front	1	N/ I L
		3M Scotchlite material		
		Layout drawing approved by customer March 24, 2021		
		,		
60-33-3310		Reflective stripe - red and yellow chevron at rear	1	MTL
		Minimum 50% of rear vertical surface.		
		Printed 3M Scotchlite material		
				1

08/31/2021 PART NO	S	DESCRIPTION	QT	Y	Page 1
60-33-3600	S	White reflective stripe - inside entry doors		1	MTL
	•	96 square inches minimum inside each cab and crew cab entry door		-	
60-35-50AA	U	Aluminum cover over hose bed with end tarps - black		1	
		An aluminum hose bed cover shall be provided to cover the		_	
		hose bed and shall be substantial enough to support being walked on. The top surface of the cover shall be designed to be non-	alin		
		(embossed aluminum treadplate.	siip		
		Door ajar switches required.			
		Gas struts and safety chains are included.			
		Tie off loops, rail, or tie off mechanisms are not included.			
		Rear flaps with Velcro straps will be provided on the rear of the cover to	tie		
		around footman's loops.			
~~ ~~ ~~~~				~	
60-40-5500		Suction hose tube (each) with door		2	MTL
		Locate at rear - both right of back compartment. For the storage of the 6" x 10' suction hoses 80-11-5000			
		Door ajar switch required.			
		Door ajai Switch required.			
60-41-1015	S	Pike Pole tube in suction hose tube		3	MTL
	-	One tube will be 2" ID round for storage of the 10' pike pole 80-13-2500.			
		One tube will be 2" ID round for storage of the 12' pike pole 80-13-253A.			
		One tube will be rectangular in shape for the storage of the 6' pike with	"D"		
		handle 80-13-2520			
		The orientation will be above the suction hose tubes (60-40-5500) to ma	tch	_	
		M11-16100 as discussed at the pre-construction meeting of 11.07.2019			
60-41-9500		> Zico Horizontal Ladder Access system		1	MTL
00-41-9300		ENG. NOTE:		'	
		Specify mounting location desired.			
		If ladder(s) are customer supplied, specify overall length and width, width betwee	en		
		side rails, rung spacing; also specify ladder brand and model			
		Right side.			
		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	anv		
		areas that protrude beyond the body.	any		
		areas that protidue beyond the body.			
60-41-9510	S	ZICO HLAS switched at right side pump panel		1	MTL
		Switch is located on same side as electric rack - right side pump panel to ma	tch		
		M11-16100. As discussed at the pre-construction meeting of 11.07.2019.			
	-				
60-80-0100	S	Cribbing storage compartment under left side rescue body (each)		1	MTL
		Cribbing compartment under body, under left side front compartment with s	lide		
		tray. Sliding hardware required			
		"D" handle guarter turn latch with rods			
		Door ajar switch required			
		White reflective striping on edges			
		Tread plate on face.			
		The size of the compartment will be identical to the one on M11-16100.	As		
		discussed at the pre-construction meeting of 11.07.2019			
60.00.6000	<u> </u>	Air Conditioner / hoster in Pressue Party 40 walt		4	NATI
60-90-6000	S	Air Conditioner / heater in Rescue Body - 12 volt	000	1	MTL
		The crew cab shall be equipped with A/C and heater that will produce 33 BTU heating and 24,000 BTU of cooling. There will be heater ducts run to			
		lower step area in each side door.	ine.		
		Location of evaporator will be behind the pump panel and condenser (betw	reen		
		frame rails under crew cab as discussed and finalized at the Pre-construct	ion		
		meeting of 11.07.2019			
		-			
		Air Conditioner installation - subcontractor		1	MTL
60-90-6010				1	
60-90-6010 60-91-0900	U	Upper compartment left side for shovels and forks Upper compartment above pump house for two (2) flat and two (2) rou		1	

08/31/2021 PART NO	S	DESCRIPTION	QT	Y	Page 1
		shovels, and two (2) small brooms (customer to size the brooms based on space available). There will be a surface mount door at each end (none on t As discussed at the pre-construction meeting of 11.07.2019 and confirmed Paul Marks by e-mail on 01.02.2020	the op).		
		-			
70 44 0000		INSTRUMENTATION		1	MTL
70-11-0000 70-11-1500		Warning Label on Pump Operator's Panel Stainless steel instrument panels		1	MTL MTL
10-11-1000		No gauge or visual display can be higher than 84" above the operator's standi position	ng		
		Midpoint of any control cannot be higher than 72" above the operator's standi position	ng		
70-11-2000		Top mount instrument panel		1	MTL
		No gauge or visual display can be higher than 84" above the operator's standi position	ng		
		Midpoint of any control cannot be higher than 72" above the operator's standi position	ng		
70 11 2500				1	NATI
70-11-2500 70-11-2700		Transverse walkway No tread plate overlay on back of chassis cab E		1 1	MTL MTL
70-11-3100		Mansaver bars not required E		1	MTL
70-11-3200	S	Colour coded tags		1	MTL
		All labels in Metric measurement as discussed at the pre-construction meet of 11.07.2019	ing		
70-11-3500	S	> Compartments in ends of walkway - each side		1	MTL
70-77-3300	5	ENG. NOTE: Flush mount doors with quarter turn "D" handle latches and tread plate overlays		'	
		There will be a compartment under the speedlay area on each side. It will be cove	red		
		with a painted door, have a door ajar switch, will NOT be vented, have interlock rubber tile and be illuminated to meet ULC. As discussed at the pre-construct meeting of 11.07.2019	ing		
70 44 4500		Dismonth ask win for a namel based afor winkfaids		4	84 7 1
70-11-4500 70-11-4600		Diamondback grip type panel hood step right side Diamondback grip type panel hood step left side		1 1	MTL MTL
70-11-5500		Right side tread plate pump access door No opening dimension less than 18"		1	MTL
		Door ajar switch required			
70-11-5600		<i>Left side tread plate pump access door</i> No opening dimension less than 18"		1	MTL
		Door ajar switch required			
70-11-5700		Transverse tread plate nump access deer		1	MTL
70-11-3700		<i>Transverse tread plate pump access door</i> No opening dimension less than 18"		1	WIIL
70-11-7500		Heat pan-aluminum		1	MTL
70-11-8000		Heater in pump compartment		1	MTL
70-20-1120	U	4-1/2" compound gauge - dual face 0-400 To be within 8" of each other - edge to edge		2	
70-20-2171	U	2-1/2" pressure gauge - dual face 0-400 Gauge to be no more than 6" from edge of the gauge to the center of the control.		8	
70-20-2500		Primer control		1	MTL
70-20-2501		Additional Primer control		2	MTL
70-20-3300		FRC InControl Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standi position.	ng	1	MTL
70-20-6500		Test gauge panel		1	MTL
		Mount below the compound gauges for proper draining			
		-			

08/31/2021 PART NO	S	DESCRIPTION	QTY	Page 1
70-20-7500		Heat exchanger control valve	1	MTL
70-20-7600		Pump cooler control valve	1	MTL
70-21-1650	U	FRC WLA360-A00 Foam Level gauge on pump panel	1	
70-21-2100	S	> PTO Hourmeter - included with the generator FROG control ENG. NOTE:	1	MTL
		Specify location in shop note		
70-21-3670	U	FRC WLA300-A00 Tank Vision water level gauge	1	
70-21-3671	U	Water level gauge on LS panel	1	
		There will be a secod water water level gauge supplied and installed on the left s pump panel as requested by Todd Finnie by e-mail on 03.25.2021	ide	
70-21-5500		Panel readout for Battery Conditioner	1	MTL
		Located in driver's side step area.	-	
71-21-4500	S	Speaker at pump operators position	1	MTL
11-21-4000	U	Weatherproof amplified Motorola speaker.		
		Located on or above the transverse pump operators panel.		
		Make and model of speaker to be determined by radio contractor to determined	ine	
		the correct speaker based on the radio and the application		
71-21-4510	U	Volume control for speaker, Microphone and connection on pump panel	1	
		The radio system shall have a weatherproof amplified Motorola speak	er	
		(71-21-4500) and volume control and a weatherproof Motorola micropho		
		installed at or above the pump control panel. A 6-wire cable shall be installe front cab radio location.	ατο	
		Customer to specify any special make/model of microphone.		
		customer to specify any special make/model of microphone.		
		ACCESSORIES	1	MTL
80-11-2000	U	Price Adjustment	2	
80-11-20AA	U	3" x 10' lightweight suction hose (ea) 2-1/2" CSA threads, rocker lug	2	
		<i>couplings</i> Rocker lug type couplings so hoses can be stored inside the 6" suction hose	2	
		Notkel hug type couplings so hoses can be stored inside the or suction hose	5.	
80-11-5000		6" x 10' lightweight suction hose (ea)	2	MTL
		Tube mounted.		
80-12-2500	S	6" barrel strainer with rope	1	MTL
		The apparatus shall be equipped 6" hard suction barrel strainer with rope (3	0' x	
		1/2" rope).		
		Shipped loose, not mounted. Customer will mount with Customer's brackets.		
80-13-0500		Rubber mallet	1	MTL
		Shipped loose, not mounted. Customer will mount with Customer's brackets.		
80-13-1100		Hose wrenches (triple) with holder	1	MTL
		Mounted as directed, otherwise shipped loose with mounting fasteners.		
90 42 4500	c	Bar with brookst	4	MTI
80-13-1500	S	Bar with bracket To be mounted on the tool board 60-31-8210 as discussed at pre-construct	1 tion	MTL
		meeting of 11.07.2019	.1011	
		3		
80-13-2500		Pike pole, fibreglass handle - 10' long	1	MTL
		Tube mounted.		
00 40 05 10				
80-13-2516	U	Pike pole, fiberglass handle - 12' long	1	
		Tube mounted.		
		Piko polo fibroglass bandlo 6' long "D" bandlo	1	MTL
80-12 2520		Pike pole, fibreglass handle - 6' long - "D" handle Tube mounted.	1	WIL
80-13-2520				
80-13-2520				
80-13-2520 80-13-4000	S	Axe, pick head, fibreglass handle and bracket	1	MTL
80-13-2520 80-13-4000	S	Axe, pick head, fibreglass handle and bracket To be mounted on the tool board 60-31-8210 with Pac bracket listed	-	MTL

08/31/2021 PART NO	S	DESCRIPTION	QTY	Page 17
80-13-4500	S	Axe, flat head, fibreglass handle and bracket		MTL
		To be mounted on the tool board 60-31-8210 with Pac bracket listed 80-99-20AA as discussed at pre-construction meeting of 11.07.2019	in	
80-14-2510	U	<i>Duo Safety 35' three section ladder</i> Mounted on the HLAS.	1	
80-14-5510	U	Duo Safety 14' roof ladder	1	
		Mounted on the HLAS.		
80-14-8510	U	<i>Duo Safety 10' folding attic ladder</i> Mounted on the HLAS on the 80-14-9000 brackets.	1	
80-14-9000	S	<i>Attic ladder bracket (Zico)</i> Mounted on the HLAS.	1	MTL
80-14-9010	U	Attic ladder bracket (Zico)	1	
		Mounted on the HLAS.		
80-18-0600	S	SCBA brkt w/strap - ZICO ULLH - EZO crew cab mount Zico assembled ULLH bracket with EZ-OUT strap assembly. Installed in crew cab seat backs.	4	MTL
80-18-0600	S	SCBA brkt w/strap - ZICO ULLH - R2 compartment mounted Four (4) brackets will be mounted in the R2 compartment on unistruts as discussed the pre-construction meeting of 11.07.2019	4 d at	MTL
80-19-0500	S	<i>Large folding wheel chock - aluminum (ea) not mounted</i> Wheel chocks will be shipped loose where the mounting brackets 80-19-00		MTL
		were deleted at the pre-construction meeting of 11.07.2019 and noted on Cha Order A	nge	
80-99-05AA	U	Zico UHH-1-C helmet holder - supply and install 4 / ship 2 loose - (ea) Carrier will mount four (4) across from the SCBA seats on the front of the pu house and ship remaining two (2) loose with mounting fasteners for custome	6 Imp ar to	
		install after delivery. As discussed at the pre-construction meeting of 11.07.2 There will be one mount at each end panel (one will be under the A/C I control) and two (2) on the transverse panel as discussed with Ed Smith	019 neat	
		02.12.2021 The model will be the UHH-1-C - flat model with chrome finish as discussed v Ed Smith on 02.12.2021, include mounting hardware for Carrier's use. These		
		be shipped to Carrier.	WIII	
80-99-10AA	U	Flare kit for transportation safety package	1	
		SOPT in file. These will be shipped loose with the other transportation safety items.		
		P/n 1580317		
80-99-15AA	U	Secure mounting for four (4) Customer supplied portable radios in crew cab Mounting to be in the crew cab radio shelf (60-31-9610) as discussed	1 at	
		pre-construction meeting of 11.07.2019		
80-99-20AA	U	Various PAC brackets and tracks - Per 7.11 of RFP	1	
		Brackets shall be supplied as per 7.11 of RFP and shall include the following 4 - PAC 1001 Hooklok (sold in pairs) - (1561553)		
		2 - PAC 1004-B Handleloc - (1562215) 2 - PAC 1042-1 Adapter loks for 1-1/2"		
		4 - PAC 1042-2 Adapter loks for 2-1/2"		
		2 - PAC 1070-O Jumbolok - (1562650) 1 - PAC K5006 Adjustamount Kit - (1562679)		
		1 - PAC K5011 Flat head axe hanger/pocket - (1562667)		
		1 - PAC K5012 Pick head axe hanger/pocket - 1562670)		
		2 - PAC K5013 Frame saddle for Hyd tool 2 - PAC K5013-X Extended frame saddle for Hyd tool		
		1 - PAC K5029-1 Kit for mounting bolt cutter - (1562662)		
		2 - PAC K5032 Kit for mounting Haligon tool - (1562224)		

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PART NO	S	DESCRIPTION	QT	/	ID
		1 - PAC K5010-12 Kit for sledge hammer - (1561559 & 1562215)			
		The above shall be mounted as directed by the Customer, otherwise ship	ped		
		loose with mounting fasteners.			
		SOPT in file			
80-99-25AA	U	36" Demolition bar (crowbar) - mounted		1	
00-33-2JAA	0	Mounted on tool board 60-31-8210 as directed by customer at pre-construct		'	
		meeting of 11.07.2019			
		SOPT in file			
		Acklands Grainger Item #GARGPWB36			
		0			
80-99-30AA	U	Akron Tri-pod light - ELSS-XLAC - 20,000 lumen, mounted, 120 Volt AC		1	
		SOPT in file. (possible part number 1032080)			
		Mounted on tool board 60-31-8210 as directed by customer at pre-construct	ion		
		meeting of 11.07.2019			
80-99-50AA		Assorted hardware/fasteners			
60-99-50AA	U	A box of the commonly used fasteners shall be included and shipped loose		1	
		the apparatus.	witti		
		the apparatus.			