



Cape Breton Regional Municipality 320 Esplande, Suit 104 Sydney, NS B1P 7B9 **Custom Top Mount Pumper** 

**Exp. Date:** 11/04/2020

Quote No: CBRM, Spartan Pumper-0016

Job/Order No: 21876

**BODY:** 00-10-15 Metalfab Pumper - ULC 05/13

PART NO S	== Metalfab Pumper - ULC 05/13 - 0.000 ==	QTY 1	ID MTL
S			
	Change Order D	1	MTL
00-05-0010	Dealer - Metalfab	1	MTL
00-10-1500	Metalfab Pumper	1	MTL
00-20-1000	Company Profile	1	MTL
00-20-1500	Standard Body Warranty	1	MTL
00-20-1550	Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1700	Hale Pump Warranty - 5 years	1	MTL
00-20-1800	Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2100 S	Plant Inspection Visit - Pre-delivery inspection for two people	1	MTL
00-20-3500	Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000 S	·	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
10-11-1103 U		1	
10-11-1500	> ULC Testing - Pumper - Imperial units of measure	1	MTL
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
10-11-3600 S	> Delivery - FOB Fire Department	1	MTL
	Deliver to 850 Grand Lake Rd, Sydney unless otherwise		
	specified		
	Delivery to be 12-14 months from signed order		
10-11-4000 S		1	
10-20-1400 S		1	MTL
	The hosebed will be setup to carry 1000' of 5" and 400' of 2.5" as		
	discussed at the pre-construction meeting of 02.03.2021		
	Engineering to calculate the additional weight required to be added to the ULC test weights:		

10-20-2000 Equipment carrying capacity - standard ULC Pumper CHASSIS INFORMATION 1 Chassis supplied by Metalfab - Spartan MetroStar MFD with 10* raised roof 47,000 lb GWMR 20,000 lb front axle 27,000 lb rear axle Cummins L9 450 hp @ 2100 rpm 2200 governed rpm 1250 f-1b torque @ 1200 rpm Allison 3000 EVS automatic transmission 320 Amp alternator 1710 Drive line series 50 US gallon fuel tank Speed to be 68 MPH to meet NFPA and brake lights will activate with exhaust brake to meet NFPA as per part #1731-005 Pump jack shaft location dimensions to be 115" as provided from Engineering Hose well in front bumper extension required capacity for 200' x 1-3/4" hose and nozzle - full size bumper compartment 2211-035 Two tone paint to match existing fleet - white over red Paint break line will be Spartan standard Classic Paint code for White - FBCH 925849 Paint code for Wolfite - FBCH 925849 Paint code for FBCH 925244 Approved paint samples were returned by DC Chris March by mall on 6.0-12021. Paint samples are in truck build binder and approval sent to Spartan Code 1707-130 for FRC InControl wire harness. WB - 218" CA - 164" OH - 60" Helmet mounting locations to be four (4) on back wall of chassis and two (2) shipped loose as discussed at the pre-construction meeting of 02.03.2021 Confirmed Siren, air hom and Q2B activation with Customer (re: foot switch controls and location, push button(s), etc.) at the pre-construction meeting of 02.03.2021 Confirmed Siren, air hom and Q2B activation with Customer (re: foot switch controls and location, push button(s), etc.) at the pre-construction meeting of 02.03.2021 Confirmed Siren, air hom and C2B activation with Customer (re: foot switch controls and location, push button(s), etc.) at the pre-construction meeting of 02.03.2021 Added the following at the pre-construction meeting of 02.03.2021 Added the following at the pre-construction meeting of 02.03.2021 Added the following at the pre-construction meeting of 02.03.2021 Jelean seats (1237-009) with spare seat covers SCBA mask pou	DART NO	C	DESCRIPTION	OTV	raye 2
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with 10" raised roof 47,000 lb GWRR 20,000 lb front axle 27,000 lb rear axle Cummins L9 450 hp @ 2100 rpm 1250 ft-lb torque @ 1200 rpm Allison 3000 EVS automatic transmission 320 Amp alternator 1710 Drive line series 50 US gallon fuel tank Speed to be 68 MPH to meet NFPA and brake lights will activate with exhaust brake to meet NFPA - as per part #1731-005 Pump lack shaft location dimensions to be 115" as provided from Engineering Hose well in front bumper extension required capacity for 200' x 1-3/4" hose and nozzle - full size bumper compartment 2211-035 Two tone paint to match existing fleet - white over red Paint break line will be Spartan standard Classic Paint code for White - FECH 926234 Paint code for Red - FBCH 926234 Approved paint samples were returned by DC Chris March by mail on 0.6.01-2021. Paint samples are in truck build binder and approval sent to Spartan Code 1707-130 for FRC InControl wire harness. WB - 218" CA - 164" OH - 60" Helmet mounting locations to be four (4) on back wall of chassis and two (2) shipped loose as discussed at the pre-construction meeting of 02.03.2021 Confirmed Siren, air horn and Q2B activation with Customer (re: foot switch controls and location, push button(s), etc.) at the pre-construction meeting of 02.03.2021 Confirmed pain selection and location, push button(s), etc.) at the pre-construction meeting of 02.03.2021 Confirmed pain layout (rocker switch assignments, siren head location, etc.) in cab with Customer - ref code 5020-002 to allow room on the right side of the center dash for radio installation. As discussed at the pre-construction meeting of 02.03.2021 Zip clean seats (1237-009) with spare seat covers SCBA mask pouches at officer and rear seats Secureall SCBA brackets Right hand camera (5727-002) Active Air Purrification (1640-007)  20-11-1500 2013 Emission chassis modifications 1 MTL A New Brunswick Motor Vehicle Inspection will be provided before the unit leaves Metalfab.	// /			1	MIL
47,000 lb GWWR 20,000 lb front axle 27,000 lb rear axle Cummins L9 450 hp @ 2100 rpm 2200 governed rpm 1250 ft-lb torque @ 1200 rpm Allison 3000 EVS automatic transmission 320 Amp alternator 1710 Drive line series 50 US gallon fuel tank Speed to be 58 MPH to meet NFPA and brake lights will activate with exhaust brake to meet NFPA - as per part #1731-005 Pump jack shaft location dimensions to be 115" as provided from Engineering Hose well in front bumper extension required capacity for 200' x 1-3/4" hose and nozzle - full size bumper compartment 2211-035 Two tone paint to match existing fleet - white over red Paint break line will be Spartan standard Classic Paint code for Red - FBCH 925849 Paint code for Red - FBCH 925849 Paint code for Red - FBCH 92634 Approved paint samples were returned by DC Chris March by mail on 6.01-201. Paint samples are in truck build binder and approval sent to Spartan Code 1707-130 for FRC InControl wire harness. WB - 218" CA - 164" OH - 60" Helmet mounting locations to be four (4) on back wall of chassis and two (2) shipped loose as discussed at the pre-construction meeting of 02.03.2021 Confirmed Siren, air hom and Q2B activation with Customer (re: foot switch controls and location, push button(s), etc.) at the pre-construction meeting of 02.03.2021 Confirmed panel layout (rocker switch assignments, siren head location, etc.) in cab with Customer - ref code 5020-002 to allow room on the right side of the center dash for radio installation. As discussed at the pre-construction meeting of 02.03.2021 Zip clean seats (1237-009) with spare seat covers SCBA mask pouches at officer and rear seats Secureall SCBA brackets Right hand camera (5727-002) Active Air Purrification (1640-007)  20-11-1500 Fluid capacity plate  1 MTL  A New Brunswick Motor Vehicle Inspection required - NB A New Brunswick Motor Vehicle Inspection will be provided before the unit leaves Metalfab.	20-11-1002	U		1	
Cummins L9 450 hp @ 2100 rpm					
Allison 3000 EVS automatic transmission 320 Amp alternator 1710 Drive line series 50 US gallon fuel tank Speed to be 68 MPH to meet NFPA and brake lights will activate with exhaust brake to meet NFPA - as per part #1731-005 Pump jack shaft location dimensions to be 115" as provided from Engineering Hose well in front bumper extension required capacity for 200' x 1-3/4" hose and nozzle - full size bumper compartment 2211-035 Two tone paint to match existing fleet - white over red Paint break line will be Spartan standard Classic Paint code for White - FBCH 925849 Paint code for Red - FBCH 926344 Approved paint samples were returned by DC Chris March by mail on 06.01.2021. Paint samples are in truck build binder and approval sent to Spartan Code 1707-130 for FRC InControl wire harness. WB - 218" CA - 164" OH - 60" Helmet mounting locations to be four (4) on back wall of chassis and two (2) shipped loose as discussed at the pre-construction meeting of 02.03.2021 Confirmed Siren, air horn and Q2B activation with Customer (re: foot switch controls and location, push button(s), etc.) at the pre-construction meeting of 02.03.2021 Confirmed panel layout (rocker switch assignments, siren head location, etc.) in cab with Customer - ref code 5020-002 to allow room on the right side of the center dash for radio installation. As discussed at the pre-construction meeting of 02.03.2021 Zip clean seats (1237-009) with spare seat covers SCBA mask pouches at officer and rear seats Secureall SCBA brackets Right hand camera (5727-002) Active Air Purrification (1640-007)  MTL  MTL  MTL  MTL  MTL  MTL  MTL			·		
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320 Amp alternator 1710 Drive line series 50 US gallon fuel tank Speed to be 68 MPH to meet NFPA and brake lights will activate with exhaust brake to meet NFPA - as per part #1731-005 Pump jack shaft location dimensions to be 115" as provided from Engineering Hose well in front bumper extension required capacity for 200' x 1-3/4" hose and nozzle - full size bumper compartment 2211-035 Two tone paint to match existing fleet - white over red Paint break line will be Spartan standard Classic Paint code for White - FBCH 925849 Paint code for Red - FBCH 925849 Paint code for Red - FBCH 925844 Approved paint samples were returned by DC Chris March by mail on 06.01.2021. Paint samples are in truck build binder and approval sent to Spartan Code 1707-130 for FRC InControl wire harness. WB - 218" CA - 164" OH - 60" Helmet mounting locations to be four (4) on back wall of chassis and two (2) shipped loose as discussed at the pre-construction meeting of 02.03.2021 Confirmed Siren, air horn and Q2B activation with Customer (re: foot switch controls and location, push button(s), etc.) at the pre-construction meeting of 02.03.2021 Confirmed panel layout (rocker switch assignments, siren head location, etc.) in cab with Customer - ref code 5020-002 to allow room on the right side of the center dash for radio installation. As discussed at the pre-construction meeting of 02.03.2021 Added the following at the pre-construction meeting of 02.03.2021 Zip clean seats (1237-009) with spare seat covers SCBA mask pouches at officer and rear seats Secureall SCBA brackets Right hand camera (5727-002) Active Air Purrification (1640-007)  20-11-1500 S Chassis Motor Vehicle Inspection required - NB A New Brunswick Motor Vehicle Inspection will be provided before the unit leaves Metalfab.			1250 ft-lb torque @ 1200 rpm		
1710 Drive line series 50 US gallon fuel tank Speed to be 68 MPH to meet NFPA and brake lights will activate with exhaust brake to meet NFPA - as per part #1731-005 Pump jack shaft location dimensions to be 115" as provided from Engineering Hose well in front bumper extension required capacity for 200' x 1-314" hose and nozzle - full size bumper compartment 2211-035 Two tone paint to match existing fleet - white over red Paint break line will be Spartan standard Classic Paint code for Red - FBCH 926849 Paint code for Red Paint Red Pai			Allison 3000 EVS automatic transmission		
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Speed to be 68 MPH to meet NFPA and brake lights will activate with exhaust brake to meet NFPA - as per part #1731-005 Pump Jack shaft location dimensions to be 115" as provided from Engineering Hose well in front bumper extension required capacity for 200' x 1-3/4" hose and nozzle - full size bumper compartment 2211-035 Two tone paint to match existing fleet - white over red Paint break line will be Spartan standard Classic Paint code for White - FBCH 926249 Paint code for Red - FBCH 926234 Approved paint samples were returned by DC Chris March by mail on 06.01.2021. Paint samples are in truck build binder and approval sent to Spartan Code 1707-130 for FRC InControl wire harness. WB - 218" CA - 164" OH - 60" Helmet mounting locations to be four (4) on back wall of chassis and two (2) shipped loose as discussed at the pre-construction meeting of 02.03.2021 Confirmed Siren, air horn and Q2B activation with Customer (re: foot switch controls and location, push button(s), etc.) at the pre-construction meeting of 02.03.2021 Confirmed panel layout (rocker switch assignments, siren head location, etc.) in cab with Customer - ref code 5020-002 to allow room on the right side of the center dash for radio installation. As discussed at the pre-construction meeting of 02.03.2021 Added the following at the pre-construction meeting of 02.03.2021 Zip clean seats (1237-009) with spare seat covers SCBA mask pouches at officer and rear seats Secureall SCBA brackets Right hand camera (5727-002) Active Air Purrification (1640-007)  20-11-1500 S Chassis Motor Vehicle Inspection required - NB A New Brunswick Motor Vehicle Inspection will be provided before the unit leaves Metalfab.			1710 Drive line series		
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	20-21-0500		Fluid capacity plate	1	MTL
	20-21-0600			1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-21-1040	S	Maximum riders sign - 6 persons - provided with Spartan	1	MTL
20-21-1040	3	Chassis	,	WIL
20-21-1510	S	Seat belt warning labels - 4 door chassis - provided with	1	MTL
20-21-1310	3		,	IVI I L
20 24 4520	_	Spartan Chassis	_	AATI
20-21-1520	S	Helmet warning label - do not wear helmet - provided with	1	MTL
00 04 4700	_	Spartan Chassis		
20-21-1560	S	LED Tire Pressure Indicators - Single Axle - provided with	1	MTL
		Spartan Chassis		
20-21-1600		Apparatus Information Label	1	MTL
		An information label is provided in the chassis cab, visible to the		
		driver, stating:		
		"When manufactured, this vehicle was:		
		** m high		
		** m long		
		** kg GVW		
		Changes in height since the apparatus was manufactured shall be		
		noted on this plate by the Fire Department"		
20-21-3500		Rear step warning label	1	MTL
20-21-3810	S	Front mudflaps provided with chassis	1	MTL
20-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
20-31-0100		Fuel tank or step covers not required	1	MTL
20-31-0100		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-1900	S	Chassis cab painted by chassis OEM	1	MTL
20-31-1900	3	Approved paint samples were returned by DC Chris March by	,	IVI I L
		•••		
		mail on 06.01.2021. Paint samples are in truck build binder		
20 44 0000		Associtions has binness associated and subsequenting	1	MITI
20-41-0900		Auxiliary braking system disabled when pumping		MTL
20-41-1100	•	Transmission programming - Allison WT	1	MTL
20-41-1500	S	Extend exhaust pipe - RS front of rear wheels w/	1	MTL
		Nederman provision		
		Engineering to specify exhaust pipe material as required by the		
		chassis manufacturer.		
		Engineering to sign off on the exhaust configuration to make		
		sure it meets the chassis manufacturer's emission		
		specifications.		
		The exhaust will have 2.5" space between the tip and the body to		
		accept a Nederman ventilation connection. The spacing of the		
		Nederman magnet will be 29.5" from the bottom of the exhaust		
		to the bottom of the magnet. See reference pictures in		
		F:/Data/Jacques/Current Projects/CBRM Custom		
		Pumper/Pictures		
		As discussed at the pre-construction meeting of 02.03.2021		
20-41-1900		Battery boost terminals with chassis E	1	MTL
		,		. =
20-41-2000		Chassis batteries remain in OEM location	1	MTL
20-41-2561	U	Fuel Fill at LS rear fender well with SCBA style door	1	
20-41-2600		Chassis fuel tank remains in OEM location	1	MTL
20-41-5000		Rear Tow Hooks - under body	1	MTL
20 41-0000		*** Flat bar tow hooks under rear step (2)		1VI 1 L
		That ball tow Hooks allact teal step (2)		
20 54 0700		Master Rattery Disconnect included with chassis	1	MTI
20-51-0700		Master Battery Disconnect included with chassis	1	MTL

07/14/2022 PART NO	S	DESCRIPTION	QTY	Page 4
20-51-2561	U	Back up alarm included with chassis	Q11	טו
20-51-3100	S	Air inlet - none required	1	MTL
20-31-3100	3	The air inlet on the chassis has been removed where the chassis	,	141 I L
		has a Kussmaul air compressor. As discussed at the		
		pre-construction meeting of 02.03.2021		
		pre-construction meeting of 02.00.2021		
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6200	S	> 120 volt 20 A shore line connection		MTL
20-31-0200	3	Standard 5-20R duplex receptacle in body, not fused		141 I L
		There will be two (2) ways to power the outlets in 51-31-3020 - from		
		the shoreline at the fire hall or from the inverter (50-31-1700) through		
		the automatic transfer switch (51-31-3100).		
		and date maneral content (or or oroo).		
20-51-7101	S	Electric System Management - provided with Spartan	1	MTL
20 01 1101	•	Chassis	•	<u> </u>
20-51-8505		Engine compartment light included with chassis E	1	MTL
20 01 0000		ingmo comparament nghe meradad with endeeme i	-	
20-51-9001	S	Air horns in bumper - provided with Spartan chassis	1	MTL
20 01 0001	•	The horns will be controlled by the steering wheel horn button	,	
		and a push button on the chassis dash		
		and a paon batton on the enaces aden		
20-52-3500	S	> Chassis steering wheel lined up by Metalfab	1	MTL
20-52-4003	Ũ	Installation of rear view camera on back of body when	1	
20 02 7000		supplied by Spartan	•	
20-60-0400		Chassis wheelbase does not change	1	MTL
20-90-1810	U	Extend air tank drain / moisture ejector cables to rubrail	1	
20 00 1010	•	and tag / label	,	
		PUMP AND PLUMBING	1	MTL
30-11-8100		Hale QMAX 1250 IGPM single stage pump	1	MTL
30-12-3500		Mechanical seal for Hale QMAX/QTWO pumps	1	MTL
30-15-0102		Plumbing - Hale manifold pump TM SS E	1	MTL
		- I among That is a pamp the company	-	
30-20-1000		Valves and controls - top mount panel	1	MTL
30-20-1003		Elkhart valves specified		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 - NSZ1	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 - do not use teflon tape or thread sealant.		
		Paint flange silver and mask brass anode before painting for visibility.		
30-21-5590		Tank to Pump TM SS 3" w/ check valve manifold pump	1	MTL
30-22-0530		Tank Fill valve 2" TM SS	1	MTL
30-31-4010	S	Suction - 6" each side manifold pump	1	MTL
		Install adapters 80-99-10AA 6" NHF x 5" Storz with 5" Storz blind		
		caps on LS and RS inlets.		
30-31-7200		> Hale master intake suction valve - electric control	2	MTL
		The left side and right side 6" inlets will be gated and will be		
		ordered with the pump.		
		Electric controls will be located on the transverse pump		
		operators panel.		

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PART NO	S	DESCRIPTION	QTY	ID
		The manual over ride controls will be located on side panels		
		adjacent to the inlet.		
30-32-8530	S	Suction - 2-1/2" left side SS, bleeder, TM control, Hale	1	MTL
		manifold pump		
30-32-9030	S	Suction - 2-1/2" right side SS, bleeder, TM control, Hale	1	MTL
		manifold pump		
30-40-3010	S	5" right discharge SS, bleeder, plumbed 4", handwheel,	1	MTL
	_	Hale manifold pump		
		5" Storz connection		
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		MTL
30-43-1530		2-1/2" rear discharge TM SS, bleeder, Traie mannoid pump 2-1/2" rear discharge TM SS, plumbed 2-1/2", bleeder		MTL
30-43-1330		Right side	,	WIL
		right side		
20 44 4020	_	A 4/01 from through line TM CC blooder when had 01		A 7 T I
30-44-1030	S	> 1-1/2" front trash line TM SS, bleeder, plumbed 2",	1	MTL
		hosewell		
		Capacity for 200' x 1-3/4" hose in hosewell.		
		The connection swivel will be above the front bumper gravel		
		shield		
30-44-3530	S	1-1/2" crosslay TM SS, *** plumbed 2-1/2" ***, bleeder	2	MTL
		Capacity in each lay for 200' x 1-3/4" hose and nozzle. The		
		crosslay area will be set for dual lays of 1.75" as discussed at the		
		pre-construction meeting of 02.03.2021		
		Stainless steel rollers are installed at each end of the hose bed.		
		2-1/2" thread to be Customer thread - part # 1501247		
		Will require a 2-1/2" female Customer thread x 1-1/2" male NPSH		
		adapter as well.		
		Part # 80-99-20AA / 1501296		
30-44-6530	S	Piping for monitor TM SS, plumbed 3", bleeder	1	MTL
00 44 0000		Piping centered in area behind transverse panel for the	•	
		80-16-0500 Akron 3423 monitor. As discussed at the		
		pre-construction meeting of 02.03.2021		
		pre-construction meeting of 02:00:2021		
30-51-0500	S	Dump shift Midship sir supplied with Sporter shapping	1	MTL
30-31-0300	3	Pump shift-Midship air - supplied with Spartan chassis	,	IVIIL
		***Includes "Pump Engaged" and "OK to Pump" indicator lights		
		in cab.		
		***Includes "Throttle Ready" indicator light on Pump operating		
		panel.		
		Ordered with Spartan (5013-032) - customer advised that		
		prefered location is near the transmission shift. As discussed at		
		pre-construction meeting of 02.03.2021		
30-51-0700		Pump Gearbox mounted manual over ride for pump shift E	1	MTL
30-51-6800	S	FRC InControl Governor/Throttle engine display with	1	MTL
		throttle knob		
		The governor will be an FRC InControl 400 as requested at the		
		pre-construction meeting of 02.03.2021		

07/14/2022	_	DECORIDATION	OTV	Page
PART NO	S	DESCRIPTION Continue vide to the continue vide to the continue vide vide vide vide vide vide vide vid	QTY	ID
30-51-7003	U	Suction side relief V/V, manifold pump	2	
		One for left side MIV		
		One for right side MIV		
	_			
30-51-7716	S	Trident Automatic Air Primer 3 barrel 3 location	1	MTL
		The primer will change to the Automatic Trident Primer as requested		
		by John Digou at the final inspection of 07.12.2022		
		Location:		
		1. Pump		
		2. Left side pre-prime		
		3. Right side pre-prime		
30-51-8100		Heat exchanger included with chassis	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-2000		Drain valve for foam system header	1	MTL
30-52-5515	U	Foam system-Hypro FoamPro 2001 Single Tank	1	
	_	Foam System is plumbed to the front trashline (30-44-1030) and		
		the two 2-1/2" crosslays (30-44-3530)		
		and the 2 m2 crossings (or 11 coos)		
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
30-32-9400		WATER AND FOAM TANKS	1	MTL
40-11-2100			1	MTL
40-11-2100		Polypropylene water tank (Imperial gallons)		MTL
		Water tank capacity certification (tank manufacturer)	1	
40-11-4500		Tank capacity 800 Imperial Gallons	· .	MTL
40-12-4500	_	Foam cell - 20 Imperial gallon	1	MTL
40-13-0100	S	> Through the tank ladder tunnel	1	MTL
		Requires Ladder tube storage 60-40-90 or any other tube mounts		
		necessary		
40.04.0500				
40-21-0500		3" tank to pump connection	1	MTL
40-22-0500	_	2" tank fill connection	1	MTL
40-23-0500	S	3/4" water level gauge connection	1	MTL
40-23-1000	S	3/4" foam level gauge connection	1	MTL
40-30-0500		Sump drain valve (3" gate valve) with linkage E	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-0400		Rear dump valve not requested E	1	MTL
40-31-6050		Rear fill not requested E	1	MTL
		ELECTRICAL	1	MTL
50-11-0400		Base electrical system - Spartan multiplex	1	MTL
		Vista display to control warning lights included with Spartan		
		chassis		
50-11-0600		Warning Light Certification	1	MTL
50-11-0700		Low Voltage Electrical system test	1	MTL
50-11-0800		Low Voltage Electrical System Documents	1	MTL
		As required by ULC and NFPA standards		
		,		
50-11-2500	S	Siren and siren speakers included with chassis	1	MTL
50-11-5990	Ü	Whelen light bar included with chassis	1	
30 . 7 0000		The light bar layout was approved at the pre-construction		
		iigiit bai layout was approved at the pre-constitution		

MTL	07/14/2022				Page 7
MTL	PART NO	S	DESCRIPTION	QTY	ID
Mount control in cab so it is accessible by both driver and officer.  50-11-8640			meeting of 02.03.2021		
Mount control in cab so it is accessible by both driver and officer.  50-11-8640					
50-11-8640 U Rear LED beacons - Whelen L31HRFN (pr) - both red 50-12-5170 U Rear LED flashers (pr) - Whelen red LED C6 10-12-5170 U Rear LED flashers (pr) - Whelen red LED C6 11-2-5221 S Front flashers, intersection lights included with chassis, Whelen C6 50-12-8522 U Body side inter Its (pr) - Whelen red LED C6 11-2-50-21-2-562 U Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea) 150-21-2-562 U Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea) 150-21-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	50-11-6600			1	MTL
50-12-5170 U Rear LED flashers (pr) - Whelen red LED 6 Lower level - located over tail light modules 50-12-8521 S Front flashers, intersection lights included with chassis, Whelen C6 50-12-8832 U Body side inter its (pr) - Whelen red LED C6 Lower level - located in rear fenders 50-21-2562 U Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea) Front two located on back of cab. Rear two located as shown on the proposal drawing - the grab handle portion will be 10" and they will be mounted so they can clear the top of the body when deployed All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100 > Compartment lighting - LED tube lights in each compartment (rollup doors)  50-21-5500 S Door Ajar warning light included with Spartan chassis Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"  50-21-8001 S Step lights for body steps - LED Switched with park brake.  50-21-8110 Step lights for chassis steps - LED - supplied with chassis Switched with park brake.  50-21-8201 S Step lights for chassis steps - LED - supplied with chassis Switched with park brake.  50-21-83AA U LED lighting for rear access ladder Switched with park brake.  50-21-8800 LED clearance its and reflectors LED intermediate turn signal/clearance/reflector length 30' Souther of the signal clear signal/clearance/reflector length 30' Souther of the signal clear signal/clearance/reflector length 30' Souther of the signal clear signal/clearance/reflector length 30' Souther of the sig			Mount control in cab so it is accessible by both driver and officer.		
50-12-5170 U Rear LED flashers (pr) - Whelen red LED 6 Lower level - located over tail light modules 50-12-8521 S Front flashers, intersection lights included with chassis, Whelen C6 50-12-8832 U Body side inter its (pr) - Whelen red LED C6 Lower level - located in rear fenders 50-21-2562 U Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea) Front two located on back of cab. Rear two located as shown on the proposal drawing - the grab handle portion will be 10" and they will be mounted so they can clear the top of the body when deployed All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100 > Compartment lighting - LED tube lights in each compartment (rollup doors)  50-21-5500 S Door Ajar warning light included with Spartan chassis Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"  50-21-8001 S Step lights for body steps - LED Switched with park brake.  50-21-8110 Step lights for chassis steps - LED - supplied with chassis Switched with park brake.  50-21-8201 S Step lights for chassis steps - LED - supplied with chassis Switched with park brake.  50-21-83AA U LED lighting for rear access ladder Switched with park brake.  50-21-8800 LED clearance its and reflectors LED intermediate turn signal/clearance/reflector length 30' Souther of the signal clear signal/clearance/reflector length 30' Souther of the signal clear signal/clearance/reflector length 30' Souther of the signal clear signal/clearance/reflector length 30' Souther of the sig	// /-				
Lower level - located over tail light modules  50-12-8521 S Front flashers, intersection lights included with chassis, Whelen C6  50-12-8832 U Body side inter Its (pr) - Whelen red LED C6  Lower level - located in rear fenders  50-21-2562 U Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea) Front two located on back of cab. Rear two located as shown on the proposal drawing - the grab handle portion will be 10" and they will be mounted so they can clear the top of the body when deployed All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100 > Compartment lighting - LED tube lights in each compartment (rollup doors)  50-21-5500 S Door Ajar warning light included with Spartan chassis 1 MTL Billingual warning label in cab to read: "Do Not Move Apparatus when Light is on"  50-21-8001 S Step lights for body steps - LED 1 MTL Switched with park brake.  50-21-8110 Step lights for walkway - 4" LED Switched with park brake.  50-21-8201 S Step lights for chassis steps - LED - supplied with chassis 1 MTL Switched with park brake.  50-21-83AA U LED lighting for rear access ladder Switched with park brake.  50-21-8800 LED clearance Its and reflectors LED intermediate turn signal/clearance/reflector length -30' LED intermediate turn signal/clearance/reflector length -30' 1 MTL 50-21-8800 LED clearance Its and reflectors 1 MTL 50-21-8900 LED clearance Its and reflectors 1 MTL 50-21-8900 LED clea				1	
50-12-8521 S Front flashers, intersection lights included with chassis, Whelen C6 50-12-8832 U Body side inter its (pr) - Whelen red LED C6 Lower level - located in rear fenders 50-21-2562 U Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea) Front two located on back of cab. Rear two located as shown on the proposal drawing - the grab handle portion will be 10° and they will be mounted so they can clear the top of the body when deployed All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100 > Compartment lighting - LED tube lights in each compartment (rollup doors)  50-21-5500 S Door Ajar warning light included with Spartan chassis Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"  50-21-8001 S Step lights for body steps - LED Switched with park brake.  50-21-8110 Step lights for chassis steps - LED  Switched with park brake.  50-21-8201 S Step lights for chassis steps - LED - supplied with chassis  1 MTL Switched with park brake.  50-21-83AA U LED lighting for rear access ladder Switched with park brake.  50-21-800 LED clearance its and reflectors  LED intermediate turn signal/clearance/reflector length -30' LED intermediate turn signal/clearance/reflector length -30' LED intermediate turn signal/clearance/reflector length -30' The signal warning light and with the within 10' of chassis batteries***	50-12-5170	U		1	
Whelen C6 Body side inter Its (pr) - Whelen red LED C6 Lower level - located in rear fenders  50-21-2562 U Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea) Front two located on back of cab. Rear two located as shown on the proposal drawing - the grab handle portion will be 10" and they will be mounted so they can clear the top of the body when deployed All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100 > Compartment lighting - LED tube lights in each compartment (rollup doors)  50-21-5500 S Door Ajar warning light included with Spartan chassis Billingual warning label in cab to read: "Do Not Move Apparatus when Light is on"  50-21-8001 S Step lights for body steps - LED Switched with park brake.  50-21-8110 Step lights for walkway - 4" LED Switched with park brake.  50-21-8201 S Step lights for chassis steps - LED - supplied with chassis Switched with park brake.  50-21-83AA U LED lighting for rear access ladder Switched with park brake.  50-21-8800 LED clearance its and reflectors  50-21-8800 LED clearanc			Lower level - located over tall light modules		
Whelen C6 Body side inter Its (pr) - Whelen red LED C6 Lower level - located in rear fenders  50-21-2562 U Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea) Front two located on back of cab. Rear two located as shown on the proposal drawing - the grab handle portion will be 10" and they will be mounted so they can clear the top of the body when deployed All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100 > Compartment lighting - LED tube lights in each compartment (rollup doors)  50-21-5500 S Door Ajar warning light included with Spartan chassis Billingual warning label in cab to read: "Do Not Move Apparatus when Light is on"  50-21-8001 S Step lights for body steps - LED Switched with park brake.  50-21-8110 Step lights for walkway - 4" LED Switched with park brake.  50-21-8201 S Step lights for chassis steps - LED - supplied with chassis Switched with park brake.  50-21-83AA U LED lighting for rear access ladder Switched with park brake.  50-21-8800 LED clearance its and reflectors  50-21-8800 LED clearanc	E0 42 0E24	C	Front floobore interposition liabte included with above	1	MTI
50-21-2622 U Body side inter Its (pr) - Whelen red LED C6 Lower level - located in rear fenders  50-21-2562 U Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea) Front two located on back of cab. Rear two located as shown on the proposal drawing - the grab handle portion will be 10" and they will be mounted so they can clear the top of the body when deployed All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100 > Compartment lighting - LED tube lights in each compartment (rollup doors) 50-21-5500 S Door Ajar warning light included with Spartan chassis Billingual warning label in cab to read: "Do Not Move Apparatus when Light is on"  50-21-8001 S Step lights for body steps - LED Switched with park brake.  50-21-8110 Step lights for walkway - 4" LED Switched with park brake.  50-21-8201 S Step lights for chassis steps - LED - supplied with chassis Switched with park brake.  50-21-83AA U LED lighting for rear access ladder Switched with park brake.  50-21-8600 LED clearance its and reflectors LED intermediate turn signal/clearance/reflector length >30' LED clearance its and reflectors LED intermediate turn signal/clearance/reflector length >30' Whelen C6 LED tall/brake-turn-backup module (pr) 1 50-31-1700 U 3000 Watt Power Inverter - Canadian Tire Eliminator ***installed after ULC and must be wired within 10' of chassis batteries****	50-12-6521	3		7	WIL
Lower level - located in rear fenders  50-21-2562  U Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea) Front two located on back of cab. Rear two located as shown on the proposal drawing - the grab handle portion will be 10" and they will be mounted so they can clear the top of the body when deployed All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100  > Compartment lighting - LED tube lights in each compartment (rollup doors)  50-21-5500  S	50 12 9922	,,,		1	
50-21-2562 U Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea) Front two located on back of cab. Rear two located as shown on the proposal drawing - the grab handle portion will be 10" and they will be mounted so they can clear the top of the body when deployed All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100 > Compartment lighting - LED tube lights in each compartment (rollup doors) So-21-5500 S Door Ajar warning light included with Spartan chassis Billingual warning label in cab to read: "Do Not Move Apparatus when Light is on"  50-21-8001 S Step lights for body steps - LED Switched with park brake.  50-21-8110 Step lights for walkway - 4" LED Switched with park brake.  50-21-8201 S Step lights for chassis steps - LED - supplied with chassis Switched with park brake.  50-21-83AA U LED lighting for rear access ladder Switched with park brake. SOPT 307b - truck specific - reference only  50-21-8800 LED clearance Its and reflectors 1 South of the park brake is and reflectors 1 LED intermediate turn signal/clearance/reflector length 50-21-8800 LED intermediate turn signal/clearance/reflector length 50-21-8800 LED intermediate turn signal/clearance/reflector length 50-22-0710 U Whelen C6 LED tail/brake-turn-backup module (pr) 1 3000 Watt Power Inverter - Canadian Tire Eliminator ""Installed after ULC and must be wired within 10" of chassis batteries"	30-12-0032	U		,	
Front two located on back of cab. Rear two located as shown on the proposal drawing - the grab handle portion will be 10" and they will be mounted so they can clear the top of the body when deployed All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100 > Compartment lighting - LED tube lights in each compartment (rollup doors)  50-21-5500 S Door Ajar warning light included with Spartan chassis Billingual warning label in cab to read: "Do Not Move Apparatus when Light is on"  50-21-8001 S Step lights for body steps - LED Switched with park brake.  50-21-8110 Step lights for walkway - 4" LED Switched with park brake.  50-21-8201 S Step lights for chassis steps - LED - supplied with chassis Switched with park brake.  50-21-83AA U LED lighting for rear access ladder Switched with park brake.  50-21-8800 LED clearance Its and reflectors 1 South LED intermediate turn signal/clearance/reflector length South LED length South Sou			Lower level - located in real refluers		
Front two located on back of cab. Rear two located as shown on the proposal drawing - the grab handle portion will be 10" and they will be mounted so they can clear the top of the body when deployed All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100 > Compartment lighting - LED tube lights in each compartment (rollup doors)  50-21-5500 S Door Ajar warning light included with Spartan chassis Billingual warning label in cab to read: "Do Not Move Apparatus when Light is on"  50-21-8001 S Step lights for body steps - LED Switched with park brake.  50-21-8110 Step lights for walkway - 4" LED Switched with park brake.  50-21-8201 S Step lights for chassis steps - LED - supplied with chassis Switched with park brake.  50-21-83AA U LED lighting for rear access ladder Switched with park brake.  50-21-8800 LED clearance Its and reflectors 1 South LED intermediate turn signal/clearance/reflector length South LED length South Sou	50-21-2562	11	Telescoping light - FRC FCA530-V20-ON-SW-NS-SR-H (ea)	1	
Rear two located as shown on the proposal drawing - the grab handle portion will be 10" and they will be mounted so they can clear the top of the body when deployed  All lights will be switched on the Vista Display. The front lights can be managed to shed but the rear ones will be used to meet the ULC requirement at the rear so they will not be able to shed. As requested at the pre-construction meeting of 02.03.2021. All lights will have hazard switches wired to a warning light in cab to indicate when telescoping poles are not stowed properly.  50-21-5100 > Compartment lighting - LED tube lights in each compartment (rollup doors)  50-21-5500 \$ Door Ajar warning light included with Spartan chassis Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"  50-21-8001 \$ Step lights for body steps - LED Switched with park brake.  50-21-8110 \$ Step lights for walkway - 4" LED Switched with park brake.  50-21-8201 \$ Step lights for chassis steps - LED - supplied with chassis Switched with park brake.  50-21-83AA U LED lighting for rear access ladder Switched with park brake.  50-21-8600 \$ LED lighting for rear access ladder Switched with park brake.  50-21-8800 LED clearance Its and reflectors LED intermediate turn signal/clearance/reflector length Southed turn signal/clearance/reflector length Southed turn signal/clearance/reflector length Southed with park signal/clearance/reflector length Southed with park signal/clearance/reflector length Southed with signal/clearance/reflector length Southed with signal/clearance/reflector length Southed with signal/clearance/reflector length WITL WITL Southed with Power Inverter - Canadian Tire Eliminator Southed with signal/clearance within 10' of chassis batteries***	30-21-2302			7	
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50-31-1700 U 3000 Watt Power Inverter - Canadian Tire Eliminator 1  ***Installed after ULC and must be wired within 10' of chassis batteries***	50-22-0710	U		1	
***Installed after ULC and must be wired within 10' of chassis batteries***					
batteries***		-			
Location as unrected by Customer - LT of KT upper			Location as directed by Customer - L1 or R1 upper		

PART NO	S	DESCRIPTION	QTY	Page 8
PARTINU	3	compartment preferably	QII	טו
		Wired to receptacle(s) as directed by Customer - refer 51-31-3020		
		As discussed at the pre-construction meeting of 02.03.2021		
		SOPT #405		
50-31-6021	U	Whelen C9SL LED scene lights (pr) - left side upper	1	
		Located in upper corner of body sides		
		Lights will be switched in cab and will be managed to shed		
50-31-6022	U	Whelen C9SL LED scene lights (pr) - rear facing upper	1	
		Located in upper corners back of body		
		Lights will be switched in cab and when truck is placed in		
		reverse and will be managed to shed		
			_	
50-31-6023	U	Whelen C9SL LED scene lights (pr) - right side upper	1	
		Located in upper corner of body sides		
		Lights will be switched in cab and will be managed to shed		
E0 24 CE0E	_	Currend limbing in already with about	1	MTI
50-31-6505	S	Ground lighting included with chassis	7	MTL
		LED Lumabars as supplied with chassis - activated by park brake, respective side door, Vista and reverse gear of		
		transmission		
		ti dii sii ii ssioii		
50-31-6580	S	Ground lighting (LED Lumabar) - top mount body	1	MTL
30-37-0300	J	Lights under rear step will be located one (1) each rear corner at	,	W. I L
		45 degree and one (1) centered under rear step.		
		Switched with park brake and to be activated when truck is		
		placed in reverse.		
50-31-6595	S	Ground lighting (LED Lumabar) - under side compartment	4	MTL
		(ea)		
		There will be additional ground light supplied and installed under the		
		L1, L3, R1 and R3 compartments. As requested by John Digou at the		
		final inspection visit of 07.12.2022		
	_			
50-35-0500	S	Installation of customer supplied mobile radio	2	MTL
		Radio information list required		
		The customer will send the VHF and TMR radio to be installed in		
		the right side of center dash panel as discussed at the pre-construction meeting of 02.03.2021		
		The radios will be powered through the master disconnect		
		switch.		
		The Motorola XTL1500 TMR and Motorola XPR 4550, 2 antenna		
		cables, TMR antenna and 2 power cables were logged into		
		inventory on 03.08.2022. Components not used to be shipped		
		back loose with the completed unit.		
		•		
50-35-0559	S	Mobile radio antenna provided by Spartan	1	MTL
		Antennas to be supplied (one VHF and one TMR) and shipped		
		loose with unit.		
50-99-25AA	U	LED Lighting for walkway down center of hose bed	1	
		Switched with park brake.		
		SOPT #560		

07/14/2022	<b>C</b> _	DECORPTION	OTY	Page
PART NO	S	DESCRIPTION > 120 yelf wiring for invertor	QTY	ID <i>MTL</i>
51-31-3020	3	> 120 volt wiring for inverter Wiring from Inverter to receptacles - reference 50-31-1700	1	IVI I L
		•		
		Customer to provide location details and requirements:		
		There will be an outlet in the L1, L3, R1and R3 compartments at		
		the compartment depth change, one (1) in the B1 compartment		
		under the ladder tube and one (1) on each side of the chassis		
		dog house. Every outlet will be wired to the auto transfer switch		
		(51-31-3100). As discussed at the pre-construction meeting of		
		02.03.2021.		
51-31-3100	S	> Automatic 110 volt transfer switch	1	MTL
		There will be an auto transfer switch that will be wired to every outlet		
		wired to the inverter (50-31-1700 and 51-31-3020) that will allow them		
		to be powered from shoreline (20-51-6200) or inverter (50-31-1700).		
		As discussed at the pre-construction meeting of 02.03.2021		
51-31-4500		Dielectric strength test for line voltage system	1	MTL
		BODY	1	MTL
60-10-1400		Single axle extruded aluminum body	1	MTL
60-10-15AA	U	1" drop on lower edge of compartment floors - sweep out	1	
		design		
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600		Painted fender surround E	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400		> Diamondback pumphouse steps	1	MTL
60-10-5430		> Diamondback 19" rear step	1	MTL
60-10-6500	S	Bolt on extruded aluminum rub rail w/reflective stripe	1	MTL
		There will be a white reflective stripe in the rub rail as discussed	-	
		at the pre-construction meeting of 02.03.2021		
		ш. ш. р. с солошистине и од стори		
60-11-0300		> Front left side compartments full height E	1	MTL
		· · · · · · · · · · · · · · · · · · ·		
60-11-0700		> Front right side compartments full height E	1	MTL
		·		
60-11-1000		> Rear left side compartments full height E	1	MTL
		·		
60-11-1400		> Rear right side compartments full height E	1	MTL
60-11-2000		> High side compartment (over 18") each	2	MTL
60-11-3200		> Full Height Rear compartment	1	MTL
60-11-5500		Rollup door - standard height	2	MTL
		Natural aluminum finish		
		Includes magnetic door switch, LED tube lights, rubber bumpers to		
		prevent pinch point		
60-11-5520		Rollup door - full height	5	MTL
		Natural aluminum finish		
		Includes magnetic door switch, LED tube lights, rubber bumpers to		
		prevent pinch point		
60-11-5655	U	Amdor roll up door pull straps - Flex - HD for L2 and R2	2	
60-11-5660	U	Amdor roll up door pull straps - Flex - HD for L1, L3, R1	4	
		and R3		

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PART NO	S	DESCRIPTION	QTY	ID
60-31-4100		Extruded aluminum handrails	1	MTL
		Minimum 2" clearance from handrail to any surface		
60-31-5000		Zico access Ladder at rear of unit	1	MTL
		Minimum 7" clearance between rung and any obstruction.		
		Switch required for warning light in cab to indicate ladder is not		
		stowed properly.		
60-31-5500	S	Steps at rear of body (folding) with LED lights - RS only	1	MTL
00 01 0000		Maximum height between steps is 18"		
		There will be sufficient amount of steps required for the available		
		amount of space to assist in reaching the rear right side portion		
		of the hose bed. As discussed at the pre-construction meeting of		
		•		
		02.03.2021		
00 04 7040				
60-31-5610	U	Steps and grab handles at front of body next to pump	1	
		panel		
		Maximum height between steps is 18"		
60-31-5700	S	Pull out step under pump panel running board (each)	2	MTL
		One under left side pump panel step and one right side.		
		Switch required for warning light in cab to indicate step is not		
		stowed properly.		
		White reflective stripe is applied on the exposed edge for		
		visibility when the step is pulled out.		
		visibility when the step is pulled out.		
60-31-6500	•	Compartment matting - black plastic interlocking tile	1	MTL
60-31-8004	S S <		3	
00-31-0004	3 \	BA bottle compartment (ea) - fender well - triple tube type	3	WIL
		with SS door		
		SOPT #1148		
		T		
		There will be three (3) triple SCBA bottle holders installed in the rear		
		fender well - one (1) in the forward left side and two (2) on the right		
		side.		
		Switch required for door ajar warning light in cab		
		Restraining loop for the bottle neck in every tube as a secondary		
		restraint to be included		
		As discussed at the pre-construction meeting of 02.03.2021.		
		-		
60-31-8400	S	Adjustable vertical partition - on a slide out tray for	1	MTL
	-	mounting E-draulic tools		_
		E-draulic mounts (ref 80-99-05AA) will be mounted on the		
		partition on the tray in the R1 compartment as discussed at the		
		pre-construction meeting of 02.03.2021.		
		The board will be adjustable from left to right to allow different		
		size tools to be mounted. As discussed at the accessories		
		review meeting.		
00.04.0000		01/21/22 (22) 000 2 1/2	_	
60-31-8800	S >	Sliding tray (ea) - 600 pound capacity	5	MTL
		***Hardware requires 3-1/2" of compartment height		
		White reflective stripe is applied on the exposed edge for visibility		
		when the compartment door is open		
		100% extension - model # AM3		
		Roll out trays installed at floor level in the following compartments;		
		Ton out trays metalicu at hour level in the following compartinents,		

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<b>PART NO</b>	S	DESCRIPTION	QTY	ID
		Tray #1 - Left side front compartment		
		Tray #2 - Left side rear compartment		
		Tray #3 - Right side front compartment		
		Tray #4 - Right side rear compartment		
		Tray #5 - Back compartment		
		As discussed at the pre-construction meeting of 02.03.2021		
		7.6 dissessed at the pre-solitation in mosting of 62.00.2621		
60-31-9600	S	> Adjustable shelf (ea)	15	MTL
00-31-9000	3	White reflective stripe is applied on the exposed edge for visibility	13	WIIL
		when the compartment door is open		
		***Tracking for shelves is required in all compartments***		
		Seven (7) adjustable full depth shelves, and eight (8) half depth shelf		
		will be supplied and installed as directed by the Customer.		
		Shelf #1 - R1 Depth - Shallow		
		Shelf #2 - R1 Depth - Shallow		
		Shelf #3 - R2 Depth - Full		
		Shelf #4 - R2 Depth - Full		
		Shelf #5 - R3 Depth - Full		
		Shelf #6 - R3 Depth - Shallow		
		Shelf #7 - R3 Depth - Shallow		
		Shelf #8 - L1 Depth - Shallow		
		Shelf #9 - L1 Depth - Shallow		
		Shelf #10 - L1 Depth - Full		
		Shelf #11 - L2 Depth - Full		
		Shelf #12 - L2 Depth - Full		
		Shelf #13 - L3 Depth - Shallow		
		Shelf #14 - L3 Depth - Shallow		
		Shelf #15 - B1 Depth - Full		
		As discussed at the pre-construction meeting of 02.03.2021		
		7 to dissussed at the pro-seriou determinesting of 62.00.2021		
60-32-3550	S	Two adjustable hose divider (each) and two fixed for	1	MTL
00-32-3330		walkway		141 T L
		Hand hold required in end.		
		Two (2) fixed to be spaced 18" apart in center of hose bed to		
		allow walkway up center of hose bed.		
		allow walkway up center of nose bed.		
CO 20 7500		Here had almostoring	4	NATI
60-32-7500		Hose bed - aluminum	1	MTL
60-33-0000		Paint exterior - Imron Elite	7	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	1	MTL
		Wheels are polished aluminum as supplied by Spartan chassis		
		and are not painted.		
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1500		Buffed finish compartment interior	1	MTL
60-33-2000		Lettering - no lettering provided	1	MTL
60-33-3200	S	Reflective stripe - 1" - 4" -1" white	1	MTL
		50% of perimeter each side and 25% of perimeter front		
		3M Scotchlite material		
		Stripes to be 1" - 4" - 1" white with a "hockey-stick" pattern in the		
		L1/R1 compartment with the pattern straight above the rear		
		axles.		
60-33-3200	S	50% of perimeter each side and 25% of perimeter front 3M Scotchlite material Stripes to be 1" - 4" - 1" white with a "hockey-stick" pattern in the L1/R1 compartment with the pattern straight above the rear	1	MTL

<b>PART NO</b>	S	DESCRIPTION	QTY	ID
		Layout was approved by John Digou by e-mail on 03.07.2022		
60-33-3310		Reflective stripe - red and yellow chevron at rear	1	MTL
		Minimum 50% of rear vertical surface		
		Printed 3M Scotchlite material		
60-33-3500	S	Tarp over hose bed - black	1	MTL
		Two long and narrow tarps to allow walkway up center with no		
		Velcro as discussed at the pre-construction meeting of		
		02.03.2021		
		There will be a weighted flap at the front, the outside edge will be		
		fastened fix, the center edge and the rear flap will have shock		
		cord / J-hooks. As approved by John Digou.		
		,, ,		
60-33-4600		Aluminum cover over crosslays - with end tarps (black)	1	MTL
		End tarps with velcro loops similar to M20-21058 will be	•	
		provided.		
		The cover restraints will be butterfly latches like M20-21058		
		The sever restraints will be butterny lateries like like 21000		
60-40-5500	S	Suction hose tube (each) with door	2	MTL
00-40-3300	3	Smooth painted doors with completely enclosed tubes.	2	WIL
		Door ajar switch required		
		Tubes to store two 6" x 10' customer supplied suction hoses:		
		Make:		
		Lenght:		
		Dimension at the widest part - handle to handle:		
		Differsion at the widest part - namine to namine.		
60-40-9000	s :	Tube mount for ladders	1	MTL
00-40-9000	3 -	Tube mount for ladders  Tube to be partitioned to store the customer supplied 24'	- 1	IVIIL
		extension ladder, customer supplied 14' roof ladder and the		
		• •		
		customer supplied 10' folding attic ladder  There will be a posket for a systemar supplied Spine Board that		
		There will be a pocket for a customer supplied Spine Board that		
		measures 72" long x 18" wide x 3" thick.		
		As discussed at the pre-construction meeting of 02.03.2021		
		Ladder information:		
		24' 2-section:		
		Make and model:		
		OAL:		
		vviain:		
		Thickness:		
		14' Roof ladder		
		Make and model:		
		OAL:		
		Width:		
		Thickness:		
		10' Attic		
		Make and model:		
		OAL:		
		Width:		
		Thickness:		
00 44 4045				
60-41-1015	S	Pike Pole tube in suction hose tube	2	MTL
		For storage of customer supplied pike poles. Tube diameter to		
		be 2" inside		

PART NO	S	DESCRIPTION	QTY	ID
60-99-35AA	Ü	Walkway with non slip overlays down center of main	411	טו
00-33-33AA	U	hose bed	,	
		18" wide as shown on the proposal drawing.		
		Embossed non slip type treadplate will be installed in the		
		walkway area.		
		Confirm with Customer this is what they are expectingthe		
		walkway was added to meet requirement of dection S.3. of		
		Tender which reads		
		"Top hose bed to be designed for safe access for reloading of		
		hose on both sides of the bed."		
		Layout was approved by customer at the pre-construction		
		meeting of 02.03.2021		
		INSTRUMENTATION	1	MTL
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-1500		Stainless steel instrument panels	1	MTL
		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		
<b></b> 44 <b></b>	_			
70-11-2000	S	Top mount instrument panel	1	MTL
		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		
		Customer has approved Metalfab's standard cable arrangement		
		for the valve controls. As discussed at the pre-construction		
		meeting of 02.03.2021		
		The top mount panel layout was reviewed and approved by		
		John Digou on 03.07.2022		
70-11-2500	S	Transverse walkway	1	MTL
70-11-2300	3	The walkway will have LED lights (50-21-8001) mounted at each	,	IVIIL
		end to illuminate the steps to access the walkway		
		•		
		The 27" wide shown on the proposal drawing was approved at		
		the pre-construction meeting of 02.03.2021		
	_		_	
70-11-2600	S	Tread plate overlay on back of chassis cab with Spartan	1	MTL
		chassis		
		The Spartan chassis will be ordered with the deck plate option		
		on the back of the cab for full coverage (1507-002) - as discussed		
		at the pre-construction meeting of 02.03.2021		
70-11-3000	S	Mansaver bars - for transverse walkway	1	MTL
	=	Engineering to specify required length to Purchasing		_
		20" = 1520597 16" = 1562698		
70-11-3200		Colour coded tags	1	MTL
	11	Colour coded tags	1	IVI I L
70-11-4506	U	Diamondback grip type panel hood step right side	7	
70-11-4606	U	Diamondback grip type panel hood step left side	1	
70-11-5500	S	Right side tread plate pump access door	1	MTL
		No opening dimension less than 18" - door will be hinged		

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PART NO	S	DESCRIPTION	QTY	ID
70-11-5600		Left side tread plate pump access door	7	MTL
		No opening dimension less than 18" - door will be hinged		
70-11-5700		Transverse tread plate pump access door	1	MTL
70-11-0700		No opening dimension less than 18" - door will be removable	,	101 I L
		The opening annoncion loca than 10 acor will be removable		
70-11-7500		Heat pan-aluminum	1	MTL
70-11-8000	S	Heater in pump compartment		MTL
		Heater control switch located on transverse pump operators		
		panel.		
70-11-8200		Rubber seal around suction and discharge openings on	1	MTL
		side pump panels		
		There will be rubber seals around the openings on the pump		
		panel to meet the requirement in section O.3		
70 00 4400		4.4/011		
70-20-1120	U	4-1/2" compound gauge - dual face 0-400  To be within 8" of each other - edge to edge	2	
		To be within a for each other - edge to edge		
70-20-2171	U	2-1/2" pressure gauge - dual face 0-400	9	
70-20-2171	U	Gauge to be no more than 6" from edge of the gauge to the		
		center of the control.		
		***Pressure gauge color trim rings to match discharge		
		handle/label colors***		
70-20-2500	S	Primer control - Automatic Trident	1	MTL
		The primer will change to the Automatic Trident Primer as requested		
		by John Digou at the final inspection of 07.12.2022		
70-20-2501	S	Additional Trident Pre-primer control	2	MTL
		The primer will change to the Automatic Trident Primer as requested		
		by John Digou at the final inspection of 07.12.2022		
70-20-3300	S	FRC InControl Governor Control	1	MTI
70-20-3300	3	Throttle can be no lower than 42" and no higher than 72" from	,	WIL
		operator's standing position.		
		The governor will be an FRC InControl 400 as requested at the		
		pre-construction meeting of 02.03.2021		
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-6500		Test gauge panel	1	MTL
		Mount below the compound gauges for proper draining		
70 00 7500		Hardan alta anno anno de la la		A 4 T 1
70-20-7500		Heat exchanger control valve		MTL
70-21-1500		Electric Foam Level gauge	1	MTL
		Include access to and room for sender in front of body and back of pump house		
		pump modae		
71-21-3500		Headset compartment	1	MTL
		For storage of headset referenced in 71-21-3520	,	
		•		
71-21-3520	U	Supply and install radio headset installed on pump panel	1	
		Radio headset supplied and installed on pump panel for TMR		
		radio system.		

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PART NO	S	DESCRIPTION SORT #884	QTY	ID
		SOPT #894 David Clarke Style H3442 headset will be supplied and		
		connection will be inside the headset compartment 71-21-3500		
		unless otherwise specified.		
		Customer to confirm if this is compatible with their radio system		
		and should provide radio for testing purposes.		
		and onedia provide radio for tooking purposees.		
		ACCESSORIES	1	MTL
80-16-0500	S	Akron 3423 Portable/deck monitor with stacked tips	1	MTL
		The monitor will be an Akron 3423 removable monitor with dual 2.5"		
		inlet ground base, stream straightner and stacked tips. As discussed		
		at the pre-construction meeting of 02.03.2021		
80-19-0500	_	Large folding wheel chock - aluminum (ea) not mounted		MTL
80-19-0600	S	> Horizontal bracket for folding wheel chock (ea)	2	MTL
		Mounted under the L1 compartment as discussed at the		
		pre-construction meeting of 02.03.2021		
80-99-05AA	U	Supply and install magnifing brooksts for 4 E draulis to als	1	
60-99-05AA	U	Supply and install mounting brackets for 4 E-draulic tools - location R1	1	
		Mounting for four (4) E-draulic tools in the R1 compartment,		
		cutter, spreader, combo tool, and ram. As discussed at the		
		pre-construction meeting of 02.03.2021		
		PAC brackets		
		Three K5035FL-OR brackets for the cutter, spreader and combo.		
		One K1022FL-OR bracket of the ram		
		Brackets will be mounted as directed by the Customer,		
		otherwise will be shipped loose with mounting fasteners.		
80-99-10AA	U	6" NHF x 5" Storz adapter and cap for side 6" inlet (ea) -	2	
		Harrington brand		
		Harrington brand model # H30E-50-60 NPSH/cap (with suction		
		gasket) - SOPT #880		
		Installed on the 6" LS and RS suction inlets.  As discussed at the pre-construction meeting of 02.03.2021		
		As discussed at the pre-construction meeting of 02.03.2021		
80-99-20AA	U	2.5" female to 1.5" male reducer for crosslays	2	
00-33-20AA	U	The crosslays 30-44-3530 will have 2.5" female NSZ1 to 1.5" Male		
		NPSH reducers supplied and installed.		
		Part # 1501296		