



Shop Order

Italy Cross Middlewood & District Fire Dept.
 17722 Hwy 103
 Italy Cross, NS B4V 0L1



Exp. Date: 04/30/2021
Quote No: Italy Cross, NS-0023
Job/Order No: 22216
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

09/26/2022

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PART NO	QTY	DESCRIPTION
	1	== Metalfab Pumper - ULC 05/13 - 0.000 ==
	1	CHANGE ORDER F
00-05-0010	1	Dealer - Metalfab
00-10-1500	1	Metalfab Pumper
00-20-1000	1	Company Profile
00-20-1500	1	Standard Body Warranty
00-20-1550	1	Metalfab Limited Ten (10) Year Paint and Corrosion Warranty
00-20-1700	1	Hale Pump Warranty - 5 years
00-20-1800	1	Polypropylene Tank Lifetime Warranty
00-20-2000	1	Plant Visits - unlimited at customer expense
00-20-3500	1	Certification for Fusion Welding of Steel and Aluminum
00-20-4000	1	Quality System registered to ISO 9001:2015
00-20-4500	1	Fire Apparatus Manufacturers' Association Membership
	1	GENERAL INFORMATION
10-11-0000	1	Intent
10-11-0110	1	Vehicle data recorder included with chassis
10-11-1100	1	ULC S515-13 Compliance
10-11-1500	1	ULC Testing - Pumper - Imperial units of measure
10-11-2100	1	Maximum length not specified
10-11-2200	1	Maximum height not specified
10-11-2400	1	Overall length is 30' or more
10-11-2500	1	General Construction
10-11-3000	1	Manuals - two copies ***Two copies of chassis manuals are required.
10-11-3600	1	Delivery - FOB Fire Department RFP request two (2) training sessions to be scheduled with Fire Chief
10-11-4000	1	Payment Terms - Chassis Net 10 days, Balance COD
10-20-1400	1	Hose capacity exceeding ULC/NFPA requirements: Additional weight: 1218 lbs Requested hose bed capacity for; 1200' - 4" hi-vol hose (Customer supplied) - Mercedes Double Jacket, 100' lengths 1000' - 2-1/2" hose (Customer supplied) - Mercedes Double Jacket 50' lengths Hose bed volume: 65 cubic feet As discussed at the pre-construction meeting of 11.18.2021

PART NO	QTY	DESCRIPTION
10-20-2000	1	Equipment carrying capacity - standard ULC Pumper
	1	CHASSIS INFORMATION
20-11-1001	1	Chassis supplied by Metalfab - Spartan FC-94 MFD, 10" raised roof, Tandem 220" wheelbase and 100" rear overhang 20,000 lb front GVW, 46,000 lbs rear GVW, 66,000 lbs GVWR Cummins L9 450 hp at 2100 RPM, governed at 2200 RPM, 1250 ftlb at 1200 RPM Auxiliary engine brake, activates brake lights, ON/OFF switch with low, medium, high Allison 3000 EVS, 4th gear startup with 5th mode Driveline 1710 series Weldon VMUX switches Engineering to supply center suction to center rear axle measurement: 141" Single color Sikkens paint code: BT LV650 T / FLNA32647 / PPG 3464 Approval received 11.18.2021 at the pre-construction meeting A/C tunnel mounted Cab seat material - Durawear. NO SCBA seat provision Halogen Flashing headlights One (1) antenna base Top speed is 55 MPH (88 km/h). No reflective stripe in chassis doors
20-11-1500	1	2013 Emission chassis modifications
20-11-1700	1	Chassis Motor Vehicle Inspection required - NB Inspection to be performed month of delivery
20-21-0500	1	Fluid capacity plate
20-21-0600	1	Pumping test plate
20-21-1040	1	Maximum riders sign - 6 persons w/chassis
20-21-1510	1	Seat belt warning labels - 4 door chassis w/chassis
20-21-1520	1	Helmet warning label - do not wear helmet w/chassis
20-21-1550	1	Tire Pressure Indicators included with chassis
20-21-1600	1	Apparatus Information Label An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: ** m high ** m long ** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"
20-21-2500	1	Shifter lock not required
20-21-3500	1	Rear step warning label
20-21-3800	1	Front mudflaps Metalfab to supply and install
20-21-4000	1	Rear mudflaps - Metalfab Logo
20-21-45AA	1	Transportation Safety Kit Basic First Aid Kit Safety Triangle 2-1/2 pound Fire Extinguisher - supplied with chassis
20-31-0100	1	Fuel tank or step covers not required
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only

PART NO	QTY	DESCRIPTION
20-31-1900	1	Chassis cab painted single color by chassis OEM
20-31-7010	1	SS nut covers, hub caps and high hats - tandem axle Metalfab to supply and install trim on OEM supplied chassis aluminum wheels
20-31-7510	1	Console in cab not requested
20-41-0600	1	Intake air shutoff for engine not requested
20-41-0900	1	Auxiliary braking system disabled when pumping
20-41-1100	1	Transmission programming - Allison WT
20-41-1500	1	Extend exhaust pipe - RS front of rear wheels 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. No special provision supplied for ventilation system in fire hall
20-41-1900	1	Battery boost terminals with chassis
20-41-2000	1	Chassis batteries remain in OEM location Three (3) batteries under left side of cab
20-41-2550	1	Fuel fill at LS rear fender well
20-41-2600	1	Chassis fuel tank remains in OEM location
20-41-5000	1	Rear Tow Hooks - under body *** Flat bar tow hooks under rear step (2)
20-41-5500	1	ON SPOT Automatic traction chains If tandem rear axle, specify which axle requires chains (front is standard) To be installed after chassis arrives at Metalfab Location of control to be on left side dash panel unless otherwise specified - near the driver's seating position
20-51-0700	1	Master Battery Disconnect included with chassis
20-51-2500	1	Back up alarm included with chassis
20-51-3400	1	Protection valve installed for air operated accessories
20-51-40AA	1	Recessed auto eject air connection with yellow cover There will be an Auto Eject airline connection supplied and installed on the chassis cab near the 110-volt inlet. It will be recessed and include a yellow cover. As discussed at the pre-construction meeting of 11.18.2021
20-51-6200	4	120 volt 20 A shore line connection Standard 5-20R duplex receptacle in body, not fused Outlets to be 12" minimum from the floor to meet ULC. 1. Upper R1 compartment for customer supplied trickle charger 2. Upper L4 compartment for BH 20 ventilation fan 80-99-65AA charging 3. Right side of dog house 4. Left side of dog house As discussed at the pre-construction meeting of 11.18.2021
20-51-6501	1	Kussmaul 40 LPC battery charger and auto eject included with Spartan chassis
20-51-7102	1	Electric System Manager included with chassis
20-51-8505	1	Engine compartment light included with chassis
20-51-9001	1	Air horns in front bumper included with Spartan chassis Horn will be controlled by steering wheel horn button and push button at officer side dash panel

PART NO	QTY	DESCRIPTION
20-52-1010	1	Federal LED Littlite gooseneck map light (ea) SOPT #291 Install on right hand dash panel near officer seating position
20-52-3500	1	Chassis steering wheel lined up by Metalfab
20-52-4003	1	Installation of rear view camera when supplied with chassis SOPT #1056 To be mounted above the dump valve Includes deck plate protective cover over the camera on the rear of the body
20-60-0400	1	Chassis wheelbase does not change
20-90-1810	1	Extend air tank drain/moisture ejectors to rubrail and tag/label SOPT #507 Petcocks supplied with chassis to be replaced with manual cable drains
20-99-05AA	1	Change Tires To Michelin - Rear tires only Change rear tires only to 12R22.5 XDS2 as per quote from Valley Front tires to remain the original Goodyear tires due to unavailability of selected Michelin thread. As discussed with Johnathan Harmon by phone on 06.03.2022
20-99-05BB	1	Credit for front Michelin replacement Front tires to remain the original Goodyear tires due to unavailability of selected Michelin thread. As discussed with Johnathan Harmon by phone on 06.03.2022
	1	PUMP AND PLUMBING
30-11-8600	1	Hale QMAX-XS 1500 IGPM single stage pump One (1) additional 2.5" right side discharge will be added to meet 1500 Imp Gal pump capacity as discussed at the pre-construction meeting of 11.18.2021.
30-12-3500	1	Mechanical seal for Hale QMAX/QTWO pumps
30-15-0104	1	Plumbing - Hale manifold pump SM SS
30-15-10AA	1	Special victaulic couplings - Stainless Steel
30-20-0500	1	Valves and controls - side mount panel
30-20-1002	1	Akron valves specified
30-20-1600	1	Piping stainless steel - general
30-20-1700	1	1-1/2" thread specifications - NPSH
30-20-1800	1	2-1/2" thread specifications - NSZ1 Customer supplied sample male and female thread for testing purposes were logged into inventory on 11.23.2021
30-20-2000	1	Piping hydrostatic test
30-20-2500	1	Anodes in suction and discharge piping 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. *** Order with pump
30-21-9510	1	Tank to Pump 4" Ball valve SS, handwheel control with check valve manifold pump Landscape style control

PART NO	QTY	DESCRIPTION
30-22-1520	1	Tank Fill valve 2-1/2" SS
30-31-4010	1	Suction - 6" each side manifold pump
30-31-7200	2	Hale master intake suction valve - electric control *** Suction to be gated is left side and right side Both electric controls will be on the left side pump panel and the manual override will be near the respective suction
30-32-7530	1	Suction - 2-1/2" left side SS, bleeder, Hale manifold pump
30-32-8030	1	Suction - 2-1/2" right side SS, bleeder, Hale manifold pump The 2.5" right side inlet will have a standard lever control at the right side pump panel. As discussed at the pre-construction meeting of 11.18.2021
30-40-3010	1	4" right disch. SS, plumbed 4", handwheel, Hale manifold, bleeder, 4" Storz cap
30-41-2020	2	2-1/2" RS discharge SS, bleeder, Hale manifold pump There will be two (2) 2.5" right side discharges installed to meet the pump capacity. As discussed at the pre-construction meeting of 11.18.2021
30-41-2520	2	2-1/2" LS discharge SS, bleeder, Hale manifold pump
30-43-1520	1	2-1/2" rear discharge SS, plumbed 2-1/2", bleeder *** Right Side as shown on proposal drawing
30-44-0520	2	1-1/2" crosslay (each) SS, 2" valve, bleeder 250' x 1-3/4 in each hose lay Hose roller at each end
30-51-0500	1	Pump shift-Midship air w/chassis ***Includes "Pump Engaged" and "OK to Pump" indicator lights on chassis instrument panel ***Includes "Throttle Ready" indicator light on Pump operating panel
30-51-0600	1	Manual over ride for pump shift on pump panel by Metalfab Mounted on left side panel near the chassis cab. Will be in a protected location to minimize the possibility of being stepped on or install a guard. As discussed at the pre-construction meeting of 11.18.2021
30-51-6800	1	FRC InControl Governor/Throttle engine display with throttle knob To include harness for chassis
30-51-7003	1	Suction side relief V/V, manifold pump
30-51-7716	1	Trident Automatic Air Primer 3 barrel 3 location Plumbed to pump Plumbed as Pre-primer for left side suction Plumbed as Pre-primer for right side suction
30-51-7720	1	Additional air tank for air primer system An additional air tank is provided and installed by Metalfab to improve air primer capacity where it's not available on FC94 chassis
30-51-8100	1	Heat exchanger included with chassis
30-51-8500	1	Pump cooler with control valve, check valve Plumbed to the water fill tower

PART NO	QTY	DESCRIPTION
30-51-9100	1	Thermal Relief Valve with warning light on left side panel Order with pump
30-52-1000	1	Master drain V/V, 12 port
30-52-3001	1	Foam system not requested
	1	WATER AND FOAM TANKS
40-11-2100	1	Polypropylene water tank (Imperial gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)
40-11-7500	1	Tank capacity 2500 Imperial Gallons
40-21-1000	1	4" tank to pump connection
40-22-1000	1	3" tank fill connection Reduced to 2.5" to match the valve
40-23-0500	1	3/4" water level gauge connection
40-23-1040	1	4" direct fill connection
40-23-1060	1	10" Newton dump connection
40-30-0400	1	3" plug in sump box
40-30-1100	1	Water Fill Box middle right side The overflow will be on the right side ahead of the suction hose tubes (60-40-2000) As discussed at the pre-construction meeting of 11.18.2021
40-31-3500	1	10" rear Newton dump, stainless steel
40-31-3600	1	Newton dump - stainless steel 36" telechute
40-31-4710	1	Newton dump, top mount manual operation, SS Lock open device is required
40-31-5610	1	Rotating dump chute for Newton dump SS with telechute
40-31-5800	1	Support for rotating dump chute if necessary Engineering to determine if this support is required
40-31-8000	1	4" Storz rear gated fill, 30-degree droop, bleeder
	1	ELECTRICAL
50-11-0400	1	Base electrical system - Spartan multiplex with rocker switches No VISTA display available with the FC94 chassis
50-11-0600	1	Warning Light Certification
50-11-0700	1	Low Voltage Electrical system test
50-11-0800	1	Low Voltage Electrical System Documents As required by ULC and NFPA standards
50-11-0900	1	Rocker switch panel with master warning switch from chassis OEM ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -REAR BEACONS -FLASHING WARNING -DITCH LIGHTS -FRONT SCENE -LEFT SCENE -REAR SCENE -RIGHT SCENE -Q2B BRAKE

PART NO	QTY	DESCRIPTION
50-11-2010	1	Federal Q2B mechanical siren - through left side front bumper ***Controlled by foot switch at both driver and officer positions. Interlock Q2B with Master warning switch and include a kill switch in the driver side chassis step. As discussed at the pre-construction meeting of 11.18.2021
50-11-2500	1	Siren and speaker included with chassis - Federal PA300 and 100 watt speaker
50-11-5990	1	Whelen light bar included with chassis
50-11-63AA	1	Fire Tech 72" front cab scene light under light bar - black in color w/chassis
50-11-68AA	1	Rear LED traffic advisor warning lights - TAM83 - surface mount - 30.45" long TIR3 super LED lights - 30.45" long All amber lights and includes TACTL5 controller mounted in driver side panel of chassis dash - As approved by Johnathan Harmon by phone on 09.26.2022 Will require custom length cable from the cab to the rear of the body No guard required since it is mounted under the intermediate step (60-31-5800). As discussed at the pre-construction meeting of 11.18.2021
50-11-8600	1	Rear LED beacons-Whelen MCFLED2R (pr) both red
50-12-8521	1	Front flashers, intersection lights included with chassis, Whelen 600
50-12-8710	1	Front side inter lts (pr) - Whelen red LED 600 with integral flasher Installed on chassis cab between front and rear door - not available from Spartan on the FC94 chassis
50-12-8810	1	Body side inter lts (pr)-Whelen red LED 600 with integral flasher
50-12-8905	1	Add'l body side inter lts (pr)-Whelen red LED 600 with integral flasher
50-21-1610	1	Parking (ditch) lights in rear fenders - LED in stainless steel housings SOPT #160a Switched in cab and interlock with reverse of transmission Can be managed to shed
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors) The lights in the R2 and R3 will be 4" LED recessed due to the height of the compartments
50-21-5550	2	Equipment rack not stowed warning light with buzzer Light(s) will be a round LED light on the center chassis dash Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on" One (1) light for the ladder rack (60-41-9500) and rear access ladder (60-31-5000) One (1) light for the porta tank rack (60-41-6001) There will be an audible alarm required to match the Door Ajar warning (50-21-5600). As discussed at the pre-construction meeting of 11.18.2021
50-21-5600	1	Door Ajar warning light with buzzer - supplied with chassis Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on" Every chassis door and every door on enclosed compartment(s) will be switched

PART NO	QTY	DESCRIPTION
50-21-8001	1	Step lights for body steps - 4" LED Switched with park brake
50-21-8201	1	Step lights for chassis steps - LED Switched with park brake
50-21-83AA	1	LED lighting for rear step/platform Switched with park brake
50-21-8600	1	LED clearance lts and reflectors
50-21-8800	1	LED intermediate turn signal/clearance/reflector length >30'
50-22-0750	1	Whelen 64 LED CAST 4V tail/brake-turn-backup-warning module (pr) Includes Tecniq brake and turn module where Zico Access Ladder (60-31-5000) blocks field of view at certain angles
50-31-6021	1	Scene lights (pr) - Whelen C9SL LED - left side upper SOPT #39c Switched in cab with cab scene light Can be managed to shed
50-31-6022	1	Scene lights (pr) - Whelen C9SL LED - rear facing SOPT #39c Switched in cab and interlock with reverse of transmission Can't be managed to shed
50-31-6023	1	Scene lights (pr) - Whelen C9SL LED - right side upper SOPT #39c Switched in cab with cab scene light Can be managed to shed
50-31-6505	1	Ground lighting included with chassis Switched with park brake from chassis OEM
50-31-6570	1	Ground lighting (LED Lumabar) - side mount body Switched with park brake
50-31-6595	4	Ground lighting (LED Lumabar) - under side compartment (ea) SOPT #590 Switched with park brake Located under the L1, L4, R1 and R4 compartments
50-31-65AA	1	Hose bed lighting - LED on front partition
50-35-0500	2	Installation of customer supplied mobile radio Metalfab will install the customer supplied VHF and TMR radio - VHF ICOM IC-F1215 - lower right corner of the center dash panel - TMR Motorola XTL-1500 - top of dash, in the middle Radio information list required - uploaded to Basecamp on 09.26.2022 As discussed at the pre-construction meeting of 11.18.2021 and approved by Johnathan Harmon by phone on 09.26.2022

PART NO	QTY	DESCRIPTION
50-35-0595	1	TMR antenna with base - custom chassis (thick roof) Metalfab will supply and install a TMR antenna and base (2nd radio antenna not available with Spartan FC94). As discussed at the pre-construction meeting of 11.18.2021
	1	BODY
60-10-1600	1	Tandem axle extruded aluminum body
60-10-4100	1	No "beavertail" rear step supports
60-10-4600	1	Painted fender surround
60-10-4700	1	Integral aluminum fender trim
60-10-5400	1	Diamondback pumphouse steps
60-10-5430	1	Diamondback 19" rear step
60-10-6500	1	Bolt on extruded aluminum rub rail No reflective stripe requested
60-11-0300	1	Front left side compartments full height
60-11-0600	1	Front right side compartments intermediate height
60-11-1000	1	Rear left side compartments full height
60-11-1300	1	Rear right side compartments intermediate height
60-11-1900	2	Low side compartment (up to 18") each - right side - R2/R3 R2 compartment to be large enough to house the Stihl Rescue saw (80-99-70AA) as discussed at the pre-construction meeting of 11.18.2021
60-11-2000	2	High side compartment (over 18") each - left side - L2/L3
60-11-3100	1	No rear compartment
60-11-4535	2	Flush mount aluminum door - single with "D" handle - flip up - R2/R3 Doors will be flip up unless otherwise specified
60-11-5500	2	Rollup door - standard height - L2/L3 Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5510	2	Rollup door - intermediate height - R1/R4 Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5520	2	Rollup door - full height - L1/L4 Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5639	2	Drip pan under door roll not requested
60-11-5639	4	Drip pan under door roll not requested
60-11-5639	2	Drip pan under door roll not requested
60-11-5655	2	Amdor pull straps - Flex - HD (for door opening 20"-37") - L2/L3 SOPT #1114 - truck specific
60-11-5660	2	Amdor pull straps - Flex - HD (for door opening 49"-70") - L1/L4 SOPT #1114 - truck specific
60-31-4100	1	Extruded aluminum handrails Minimum 2" clearance from handrail to any surface
60-31-5000	1	Zico access Ladder at rear of unit Minimum 7" clearance between rung and any obstruction

PART NO	QTY	DESCRIPTION
		Wired to the not stored warning light (50-21-5600)
60-31-5500	1	Steps at rear of body (folding) with LED lights Maximum height between steps is 18" Right side only due to Access Ladder (60-31-5000) on the left side Integral LED lights switched with park brake
60-31-5600	1	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18" With integral LED lights switched with park brake
60-31-5800	1	Special step over rear dump
60-31-6500	1	Compartment matting - black plastic interlocking tile
60-31-8006	8	BA bottle compartment (ea) - fender well There will be four (4) SCBA bottle storage tubes installed in the left and right rear fender well. They will include a nylon loop in each tube to be used as a secondary restraint. The tubes on the right side will be interlocked with the Porta Tank rack (60-41-6001) Make and model of bottle: Scott 2.2 Bottle length: 24" Bottle diameter: Carbon fibre is 6" and aluminum is 7" Picture of bottle valve to ensure the nylon loop restraint will fit: Saved at F:/Data/Jacques/Current Project/Italy Cross/Pictures
60-31-82AA	1	Adjustable vertical dividers on pull out tray in R4 - 6 hoses Customer advise at the pre-construction meeting of 11.18.2021 that six (6) hoses will be carried.
60-31-8650	2	Sliding tray (ea) - 500 pound capacity, lock-in, lock-out - L4, R4 SOPT #120 White Reflective stripe is applied on the exposed edge for visibility when the compartment door is open
60-31-8800	2	Sliding tray (ea) - 600 pound capacity - L1, R1 ***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
60-31-9600	6	Adjustable shelf (ea) - L1, L1, L4, L4, R1, R4 White Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Depth of Shelves to be shallow as discussed at the pre-construction meeting of 11.18.2021 1. L1 - Shallow 2. L1 - Shallow 3. L4 - Shallow 4. L4 - Shallow 5. R1 - Shallow 6. R4 - Shallow
60-31-96AA	2	Additional adjustable shelves There will be additional shelves installed in the deep portion of the L1 and R1 compartments as requested by Johnathan Harmon by phone on 09.12.2022

PART NO	QTY	DESCRIPTION
60-32-3550	1	Two adjustable hose divider (each) Hand hold required in end
60-32-7500	1	Hose bed - aluminum Requested hose bed capacity for; 1200' - 4" hi-vol hose (Customer supplied) 1000' - 2-1/2" hose (Customer supplied)
60-33-0000	1	Paint exterior - Imron Elite *** Paint code and colour to match chassis cab
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-0600	1	Chassis wheels not painted - aluminum wheels
60-33-1000	1	Paint pump and plumbing job colour
60-33-1500	1	Buffed finish compartment interior
60-33-2200	1	Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text. See pictures in F/Data/Jacques/Current Projects/Italy Cross/Pictures Dept name on front chassis door - same color as "Fire-Rescue" (60-33-22AA) on Porta Tank Rack Dept crest on rear chassis door Emergency 911 on rear side compartment door Keep Back 150M on rear of body Truck number "No.3" on the cab corners uder the windshield As discussed at the pre-construction meeting of 11.18.2021 and approved by Johnathan Harmon by e-mail on 05.26.2022
60-33-22AA	1	Additional lettering on porta tank cover Additional lettering will be supplied and installed on the porta tank cover (60-41-6110). It will be "Fire-Rescue" in Gold Metallic with black outline and drop shadow that measures 120" x 14.5" As discussed at the pre-construction meeting of 11.18.2021 and approved by Johnathan Harmon by e-mail on 05.26.2022
60-33-3000	1	Reflective stripe - 4" white 50% of perimeter each side and 25% of perimeter front Scotchlite 3M material
60-33-3310	1	Reflective stripe - red and yellow chevron at rear Minimum 50% of rear Printed 3M Scotchlite material
60-33-3500	1	Tarp over hose bed - black
60-33-4600	1	Aluminum cover over crosslays - with end tarps (black)
60-40-2000	2	4" Hose tray - top mount (ea) in hose bed For customer supplied suction hose Customer to supply: Make of suction hose: Kocheck Lenght of hose: 120" Dimension at widest part of the hose: 11" tip to tip of handle As measured at the pre-construction meeting of 11.18.2021
60-40-4500	1	6" Hose tray - side mount (ea) on portable tank rack For 6" x 10' Metalfab supplied hose (80-11-5000)

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		Suction hose on porta tank rack to be secured with Velcro straps. Outside tube to be painted plate to match porta tank cover.
60-40-5500	2	Suction hose tube (each) with door For 6" x 10' Metalfab supplied hose (80-11-5000) Suction hose tubes under the "T" of the tank as discussed at the pre-construction meeting of 11.18.2021
60-41-1015	2	Pike Pole tube in suction hose tube For the 10' pike pole (80-13-2500) and 6' pike pole (80-13-2510) and will include a length tag on each compartment door. As discussed at the pre-construction meeting of 11.18.2021
60-41-6001	1	Zico hydraulic portable tank rack To be wired so only operable when park brake is engaged, R2 and R3 compartments are closed and right side SCBA tube doors are closed (60-31-8006) Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. One (1) suction hose tray (60-40-4500) is mounted to rack For customer supplied porta tank. Customer to supply: Make and Model of porta tank: see picture in F:/Data/Jacques/Current Project/Italy Cross/Pictures Length of porta tank: 154" Height of porta tank: 30" Thickness of folded porta tank: 8-1/4" As measured at the pre-construction meeting of 11.18.2021
60-41-6010	1	ZICO PTS switched at rear above tail light Switch is located on same side as electric rack
60-41-6110	1	Painted plate on exterior of Zico PTS The exterior of the Zico PTS rack will be covered with painted aluminum plate as discussed at the pre-construction meeting of 11.18.2021
60-41-7100	1	Tread plate on body behind porta tank rack
60-41-9500	1	Zico Horizontal Ladder Access system Include HLAS-OS optional stop To be wired so only operable when park brake is engaged. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. To hold the following Metalfab supplied equipment: Alco Lite 30' 2-section ladder - 80-14-1500 Alco Lite 20' roof ladder - 80-14-6005 10' Attic ladder bracket - 80-14-9000
60-41-9510	1	ZICO HLAS switched at rear above tail light Switch is located on same side as electric rack
	1	INSTRUMENTATION
70-11-0000	1	Warning Label on Pump Operator's Panel
70-11-0500	1	Side mount instrument panel No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position

PART NO	QTY	DESCRIPTION
70-11-1500	1	Stainless steel instrument panels No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position
70-11-3200	1	Colour coded tags The two (2) 1.5" crosslays will have green and orange tags as discussed at the pre-construction meeting of 11.18.2021
70-11-4100	1	Stainless steel side panel hood left side
70-11-4500	1	Diamondback grip type panel hood step right side
70-11-5100	1	Storage at rear top of pump house Will include LED lights wired to park brake Drains plumbed to an area below the chassis frame rail Interlocking plastic tile on the compartment floor
70-11-5200	1	End doors and hinged top cover for dunnage area over pump house SOPT #146 The end doors will be smooth aluminum painted job color, have d-handle and be surface mounted. The top cover will be deck plate and have rubber latches Wired to door ajar (50-21-5600)
70-11-5500	1	Right side tread plate pump access door No opening dimension less than 18"
70-11-7500	1	Heat pan-aluminum
70-11-8000	1	Heater in pump compartment - hoses insulated for entire run Switched on left side pump panel The insulation will be standard foam insulation for water pipes and be covered with protective loom
70-20-1120	2	4-1/2" compound gauge - dual face 0-400 Thuemling brand
70-20-2130	7	Price Adjustment
70-20-2130	8	2-1/2" pressure gauge - dual face 0-400 - Thuemling brand Each discharge will have a pressure gauge
70-20-2500	1	Trident Automatic Primer control
70-20-2501	2	Additional Trident Pre-Primer control
70-20-3300	1	FRC InControl Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.
70-20-3500	1	Electric water level gauge on pump panel, Class One
70-20-3611	1	Remote PSTANK2 water level indicators each side, rear with driver SOPT #1071 - truck specific Includes Black bezel Interlock with park brake Mounting location was confirmed at pre-construction meeting of 11.18.2021
70-20-6500	1	Test gauge panel Mount below the compound gauges for proper draining
70-20-7500	1	Heat exchanger control valve

PART NO	QTY	DESCRIPTION
70-20-7600	1	Pump cooler control valve
	1	ACCESSORIES
80-11-5000	3	6" x 10' lightweight suction hose (ea) One (1) to be mounted on rack 60-41-6001 and two (2) in the tubes 60-40-5500. As discussed at the pre-construction meeting of 11.18.2021
80-12-2500	1	6" barrel strainer Ship loose - to be mounted by customer with customer supplied bracket
80-12-4502	1	6" low level strainer with 1-1/2" venturi connection - TFT A03HNXJET SOPT #394 - truck specific Ship loose - to be mounted by customer with customer supplied bracket
80-13-1100	2	Hose wrenches (triple) with holder Customer to advise mounting location(s): L1 compartment and right side pump panel As discussed at the pre-construction meeting of 11.18.2021
80-13-1200	2	Clare hose wrenches (double) with holder Customer to advise mounting location(s): Right side pump panel and back of body As discussed at the pre-construction meeting of 11.18.2021
80-13-2500	1	Pike pole, fibreglass handle - 10' long To be stored in tube 60-41-1015 as discussed at the pre-construction meeting of 11.18.2021
80-13-2510	1	Pike pole, fibreglass handle - 6' long To be stored in tube 60-41-1015 as discussed at the pre-construction meeting of 11.18.2021
80-13-2550	1	6' plaster hook with mounting brackets Customer to advise mounting location(s): under the cover of the dunnage area (70-11-5200) As discussed at the pre-construction meeting of 11.18.2021
80-13-4000	2	Axe, pick head, fibreglass handle and bracket Customer to advise mounting location(s): in the R3 compartment As discussed at the pre-construction meeting of 11.18.2021
80-13-4500	1	Axe, flat head, fibreglass handle Customer to advise mounting location(s): in the R3 compartment with Halligan 80-20-5040 and Pac Ironlock bracket. As discussed at the pre-construction meeting of 11.18.2021
80-14-1500	1	30' 2 section extension ladder PEL30 Mounted on Zico rack 60-41-9500
80-14-6005	1	20' aluminum roof ladder PRL-20 Mounted on Zico rack 60-41-9500
80-14-8500	1	10' aluminum folding attic ladder FL-10 Mounted on Zico rack 60-41-9500 with bracket 80-14-9000

PART NO	QTY	DESCRIPTION
80-14-9000	1	Attic ladder bracket (Zico) Mounted on Zico rack 60-41-9500
80-15-7020	1	45-degree suction elbow - 6" NHF x 6" NHM Kocheck KEP6L6-C45 - shipped loose A 45-degree suction elbow to be supplied as requested by Johnathan Harmon by phone 06.03.2022
80-15-7025	1	6" NHF LH swivel to 4" Storz 30 degree adapter (ea) complete with 4" Storz cap Kocheck SKE4T6L SOPT #496 Ship loose as discussed at the pre-construction meeting of 11.18.2021
80-17-0500	1	20# dry chemical fire extinguisher and mount Mount on the sliding tray in the L4 compartment
80-17-1000	1	15# CO2 fire extinguisher and mount Mount on the sliding tray in the L4 compartment
80-18-0500	4	SCBA bracket with strap - compt mount - two in L2, two in L3 SCBA measure 24" long x 15" wide x 11" deep as measured at the pre-construction meeting of 11.18.2021 See pictures: F/Data/Jacques/Current Project/Italy Cross/Pictures
80-18-0840	2	Pistol grip nozzle holder - ZICO NBM-2 Customer to advise mounting location(s): one (1) on the left side pump panel and one (1) on the right side pump access door (70-11-5500). As discussed at the pre-construction meeting of 11.18.2021
80-19-0500	2	Large folding wheel chock - aluminum (ea) not mounted
80-19-0600	2	Horizontal bracket for folding wheel chock (ea) Customer to advise mounting location(s): at the depth change of the L1 compartment As discussed at the pre-construction meeting of 11.18.2021
80-20-3010	4	Portable hand light (ea) with charger Streamlight Vulcan LED - orange in color SOPT #393 see file for extra chargers, ect. Location: On rear of dog house 12VDC as discussed at the pre-construction meeting of 11.18.2021
80-20-4000	1	Double female adapter 2-1/2" PYROLITE Ship loose
80-20-4500	1	Double male adapter 2-1/2" PYROLITE Ship Loose
80-20-49AA	1	Paratech Hwy Halligan and mounting kit A 36" Paratech highway Halligan model 22-000623 mounted with PAC Ironlock

PART NO	QTY	DESCRIPTION
		K5003-HD-B to include flathead axe 80-13-4500 to be mounted in R3 compartment as requested by Johnathan Harmon on 01.02.2022
80-20-50AA	1	Scott V320 TIC SOPT Mounting location of unit to be on back of dog house between the flashlights (80-20-3010) and the charger to be on the dog house (ahead of the A/C and near the officer seat). The 110 volt charger will plug into the shoreline outlet (20-51-6200) As discussed at the pre-construction meeting of 11.18.2021 and by phone on 06.08.2022
80-99-21AA	5	2-1/2" x 1-1/2" reducer caps - chrome plated (ea) Every 2.5" discharge will have a 1.5" reducer and cap installed.
80-99-25AA	1	4" NH male to 4" Storz adapter - shipped loose SOPT Kocheck S36S44
80-99-26AA	1	5" Storz to 4" Storz adapter - shipped loose SOPT 1089 Kocheck S60S54
80-99-27AA	1	6" NH female to 6" NH female adapter - shipped loose SOPT Kocheck 57I66-QS-2 Metalfab part # 1501150
80-99-30AA	2	Akron SaberJet Nozzle 1523 with 7/8" bore tip - ship loose
80-99-50AA	1	6" floating barrel strainer - TFT A06HNX Ship loose - to be mounted by customer with customer supplied bracket
80-99-60AA	2	Akron 2393 axial playpipe with stacked tips Ship loose - to be mounted by customer with customer supplied bracket
80-99-65AA	1	BH 20 Quickee Ventilation Fan Ship loose - to be mounted by customer with customer supplied bracket SOPT as per quote in file Will be stored in L4 compartment and plugged into 20-51-6200 receptacle. As discussed at the pre-construction meeting of 11.18.2021
80-99-70AA	1	Stihl MS 461R Rescue Saw w/46RDS66E Chain Size Ship loose - to be mounted by customer with customer supplied bracket SOPT as per quote in file Will be stored in R2 compartment as discussed at the pre-construction meeting of 11.18.2021
80-99-75AA	1	Provision for department mounted / supplied Radios and handlights There will be a 10" deep x the width of the dog house mounting plate supplied and installed ahead of the A/C module on the dog house. It will be mounted with 1/2" of space between the plate and the dog house to allow the customer to attach their equipment and will have a gray Zolatone finish. As discussed at the pre-construction meeting of 11.18.2021