



Shop Order

Elmsdale Fire and Emergency Services
 720 Hwy 2
 Elmsdale, NS B2S 1E9

Sales Rep: Jacques Pelletier Metalfab Ltd.	Terms: Body and equipment COD
Drawing #: FT-11053	
Est. Delivery Date: / /	
Customer PO #:	Penalty:
Customer #: 424	None
QPF #:	

Quote No: JELNS-0016
Job/Order No: 20276
 09/21/2018

PART NO	QTY	DESCRIPTION
	1	== <i>Metalfab Walk Around 05/13 - 0.000</i> ==
	1	CHANGE ORDER C
00-10-2000	1	Metalfab Walk Around Rescue/Equipment Unit E
00-20-1000	1	Company Profile E
00-20-1500	1	Standard Body Warranty
00-20-1550	1	Metalfab Limited Ten (10) Year Paint and Corrosion Warranty
00-20-2000	1	Plant Visits - unlimited at customer expense
00-20-3000	1	No Bonding Requested
00-20-3500	1	Certification for Fusion Welding of 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 E
10-11-0105	1	Vehicle Data Recorder not requested E
10-11-0700	1	ULC S515-13 Compliance - Rescue/Equipment
		Reference ULC S515:
		Chapter 3 - General Requirements
		Chapter 10 - Special Services Apparatus
		Chapter 11 - Chassis
		Chapter 12 - Low Voltage Electrical/Warning
		Chapter 13 - Driving and Crew Areas
		Chapter 14 - Body
10-11-2010	1	ULC Testing - Special Services Vehicle - no pump
10-11-2100	1	Maximum length not specified E
10-11-2200	1	Maximum height not specified E
10-11-2300	1	Overall length is less than 30'
10-11-2500	1	General Construction
10-11-3000	1	Manuals - two copies
		***Two copies of chassis manuals are required.
10-11-3500	1	P/U customer supplied chassis in Elmsdale and bring to Centreville
10-11-3600	1	Delivery - FOB Fire Department
10-11-4100	1	Payment Terms - Body only COD (with customer supplied chassis)
10-20-2610	1	Equipment carrying capacity - ULC/NFPA SSV 15,001 to 20,000 GVW
		This vehicle is designed to carry the standard miscellaneous equipment load of 2500

PART NO	QTY	DESCRIPTION
		pounds for a Special Services Vehicle of 15,001 to 20,000 pounds GVW.
	1	CHASSIS INFORMATION
20-11-0500	1	Customer supplied Chassis - Ford F550 4x4 XLT trim package
		203" Wheelbase
		6.7 V8 Diesel
		6-Speed Automatic transmission
		18,000 lb GVWR
		Paint - Oxford white
		When chassis arrives at Metalfab, send to Corey Ford to have the Turn/Brake signals separated
20-11-1500	1	2013 Emission chassis modifications
20-11-1600	1	Chassis Motor Vehicle Inspection as supplied with customer supplied chassis
20-21-0500	1	Fluid capacity plate
20-21-1030	1	Maximum riders sign - 5 persons
20-21-1510	4	Seat belt warning labels - 4 door chassis
20-21-1560	1	LED tire pressure indicator - Real Wheels
		SOPT 19
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"
20-21-2000	1	Non removable key
20-21-3500	1	Rear step warning label
20-21-3810	1	Front mudflaps as provided with chassis
20-21-4000	1	Rear mudflaps - Metalfab Logo
20-31-0100	1	Fuel tank or step covers not required
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only
20-31-1900	1	Chassis cab painted by chassis OEM - Oxford white
20-31-6000	1	Stainless steel wheel covers - single axle
20-31-7500	1	Console in cab
		Install siren (50-11-1488) flat on the console, door ajar light (50-21-5500), Go-Light control (50-21-3010), Low Voltage alarm (50-21-3010) and Customers supplied radio (50-35-0500) in console.
		Storage area with hinged cover and lift and turn latch provided at rear of console.
		Gray Zolatone finish
		The console is not to block the Ford power outlets and an approval drawing was approved 08.30.2018.
20-31-7588	1	Remove Center section of front cab seat for room for console
		Return to the Customer
		SOPT 446
20-41-0600	1	Intake air shutoff for engine not required
20-41-1520	1	Extend exhaust pipe - RS rear of rear wheels E
		Engineering to specify exhaust pipe material as required by the chassis manufacturer.
		Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.
20-41-1801	1	Battery boost terminals not required - batteries accessible
20-41-2000	1	Chassis batteries remain in OEM location
20-41-2550	1	Fuel fill at LS rear fender well
		Rear of rear wheels.

PART NO	QTY	DESCRIPTION
		Use aluminum fuel guard
20-41-2565	1	DEF fill - LS rear fender well Forward of rear wheels. Use aluminum fill guard.
20-41-2600	1	Chassis fuel tank remains in OEM location
20-41-5005	1	Rear Tow Hooks not required E
20-41-5200	1	Rear trailer receiver and trailer wiring - Class III/IV, 7 pin connector The brake controller supplied with the chassis will be wired to the 7-pin connector and it will be wired as per industry standard - no standard wiring required.
20-41-5240	1	Supply pintle hook, adapter and pin to slide in rear receiver Shipped loose SOPT 922
20-51-0500	1	Master disconnect switch - manual *** Floor mounted next to driver's door The only loads that will be disconnected will be the ones installed by Metalfab as per the Ford Bulletin
20-51-3100	1	Air inlet not requested
20-51-6200	4	120 volt 20 A shore line connection Standard 5-20R duplex receptacle, not fused Locations confirmed at pre-construction meeting of 06.14.2018 Receptacle #1 - on upper front wall of L1/R1 for battery conditioner to plug into (minimum 12" from floor level) Receptacle #2 - Located in the upper left side rear compartment Receptacle #3 - Located in the middle left side rear compartment Receptacle #4 - Located in the lower left side rear compartment
20-51-62AA	1	Power bar in L3 compartment There will be a power bar installed in the L3 compartment on the pull out / tip down tray for customer supplied chargers.
20-51-6500	1	Kussmaul Autocharge 1000 battery conditioner w/battery saver Mount on the upper front wall of L1/R1 pass through compartment
20-51-7101	1	Electric System Management - VMUX
20-51-7300	1	Low Voltage Alarm in cab with audible alarm Located on console 20-31-7500.
20-51-7500	1	Super Auto eject for 120 v - 20 A with sealed enclosure Located on an angled standoff on front of body - left side
20-51-8500	1	Engine compartment light - LED Use same control as Ford uses on their current light
20-51-8600	1	Air intake ember seperator for Ford SOPT 301
20-51-9001	1	Air horns not requested
20-52-3000	1	Chassis steering wheel lined up by others
20-52-4003	1	Installation of rearview camera supplied by Ford SOPT 1056 The back up camera was in the back seat of the chassis when it was picked up 06.14.2018
20-60-0400	1	Chassis wheelbase does not change

PART NO	QTY	DESCRIPTION
20-99-06AA	1	Ford Running boards Part number 1562879 - Chrome tubular style SOPT 1017
20-99-15AA	1	Install customer supplied dash cam Behind windshield under rear view mirror SOPT 1184 The dash cam was given to the parts counter 06.15.2018
		ELECTRICAL
50-11-0300	1	Base electrical system - multiplex E Wire raceway to be on the outside edge of the body for accessibility and protected from damage Wiring to be run behind coffin compartments in upper body (above the roll of the rollup doors). There will be an access panel to allow the easy access of the wiring for repairs.
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
50-11-1488	1	Whelen Siren 295SDA1 and power controller Dual Tone Siren, For Two 100 Watt Speakers, with Full Function Control Head mounted in cab console 20-31-7500 Part number 1570985 Warning lights to be on slide switch (acts as a master emergency light switch) SOPT 1180 See pictures in O:/Metalfabphotos/road/Elmsdale/Rescue to see how the current control module is set up. The button layout of the module will be as follows: One button for left scene light, one button for right scene light and one button for rear scene light. There will be one button setup for the high idle. The traffic bar will be interlocked with the Master Emergency light switch, will have a button to flash to the right, one button to flash to the left and one button to flash. There will be a fourth button to shut of the traffic bar if its not to be used with the emergency lights.
50-11-16AA	2	Siren speaker, 100 watt, in/behind bumper Sized to fit in bumper
50-11-2600	1	Siren to be accessible to driver and officer
50-11-6110	1	Whelen emergency light package
50-11-62AA	1	Whelen F4N2QLED Ultra Freedom IV lightbar SOPT #891 - truck specific
50-11-66AA	1	Rear LED Traffic Advisro warning light - surface mount - TAD8 Controlled by the Whelen siren 295SDA1 controller. The traffic bar will be interlocked with the Master Emergency light switch, will have a button to flash to the right, one button to flash to the left and one button to flash. There will be a fourth button to shut of the traffic bar if its not to be used with the emergency lights.
50-11-8001	1	Rear beacons not requested
50-12-05AA	5	Whelen Ion T-series flashers (pr) Model TLIR (red) with TIONFC (chrome flange). Lights are located as shown on the proposal drawing. Two sets in front grille. One each side of cab fender. One each side of body rear fender. One above each tail light module on rear. SOPT in file.

PART NO	QTY	DESCRIPTION
		The flashers in the front grill will be installed on the grill part (not on the chrome finish). There will be a set between the upper chrome finish and the hood and there will be a set between the lower chrome finish and the bumper.
50-21-16AA	2	FRC Spectra telescoping light, 20,000 lumens, 12VDC SPA530-Q20 (ea) There will be two (2) FRC Spectra SPA530-Q20 telescoping lights installed on the front of the body. There will be a no scratch option installed and the lighthouse will be stored facing the body to protect the lamp head lens during travel. Each lighthouse will be controlled by a separate Ford Upfitter switch in the chassis cab.
50-21-3020	1	Go-Light (Model 2020 white) on cab (ea) P/N 1001911 Control to be located on console 20-31-7500 within easy reach of Officer SOPT 10
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors)
50-21-5500	1	Door Ajar warning light Located in cab console 20-31-7500 Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"
50-21-8006	1	Step lights for body steps - LED - Rescue Switched when transmission is place in park.
50-21-8201	1	12" Lumabar LED step lights for 4-door chassis Switched when transmission is place in park. SOPT 194
50-21-83AA	1	12" LED Lumabar for Zico Access Ladder Switched when transmission is place in park. SOPT 307B
50-21-8600	1	LED clearance lts and reflectors
50-22-0710	1	Whelen C6 LED tail/brake-turn-backup module (pr)
50-31-55AA	1	FRC Spectra Max SPA260-Q20 LED surface mount 12-volt (pr) Mounted one each side in upper level center on side as shown on the proposal drawing Switched with switches for the M9V2R combination scene/warning lights (left and right side) These light can be managed to shed SOPT 1168
50-31-60AA	3	Whelen M9 LED combination Scene/Warning light (pr) Model #M9V2R Located as shown on the proposal drawing. ***Two left side - one in each upper corner. The Warning part switched with "Flashing Warning" on the 295SDA1 controller. The scene part switched with the "Left Scene" on the 295SDA1 controller. ***Two right side - one in each upper corner. Warning part switched with "Flashing Warning" on the 295SDA1 controller. The scene part switched with the "Right Scene" on the 295SDA1 controller. ***Two on rear face of body - one in each upper corner. Warning part switched with "Flashing Warning" on the 295SDA1 controller. The scene part switched with the "Rear Scene" on the 295SDA1 controller. The left scene and right scene lights can be managed to shed. The rear scene lights cannot be managed to shed as they are required for ULC. SOPT 1069 The rear scene lights will be interlocked with the reverse gear of the transmission as well.

PART NO	QTY	DESCRIPTION
50-31-6560	1	Ground lighting (LED Lumabar) - 4 door chassis Switched when transmission is place in park.
50-31-6590	1	Ground lighting (LED Lumabar) - rescue body Switched when transmission is place in park.
50-31-65AA	1	Walkway lighting - ULC requirement For the top walkway. Switched when transmission is place in park. SOPT 958
50-35-0500	1	Installation of customer supplied mobile radio Radio information list required - to be obtained at the pre-construction meeting The Motorola TMR XLT 1500 was given to the parts counter 06.15.2018.
50-35-0590	1	Cellular/TMR antenna with base - commercial chassis
50-40-20AA	2	FRC SPA656-K20-DM-ONP3 tripod base and Spectra light head There will be a pair of FRC SPA656-K20-DM-ONP3 tri-pod base and removable Spectra light head with direct mount base supplied and installed. The tri-pod base will be installed on the tool boards in the L1/R1 compartment tool boards.
50-40-25AA	4	Price Adjustment
	1	BODY
60-10-2200	1	Walk around extruded aluminum Rescue Body 12'
60-10-4100	1	No "beavertail" rear step supports
60-10-4600	1	Painted fender surround E
60-10-4700	1	Integral aluminum fender trim
60-10-5450	1	Diamondback 10" rear step
60-10-6000	1	Extruded rub rail
60-11-0300	1	Front left side compartments full height - through compartment to RS Will have a SlideMaster 600lb tray installed 60-99-20AA - half depth
60-11-0700	1	Front right side compartments full height - through compartment to LS Will have a SlideMaster 600lb tray installed 60-99-20AA - half depth Tray capacity will be 600lbs There will be an area under the half depth SlideMaster tray and the compartment floor at the frame level that will remain open for the storage of traffic signs. There will be two (2) tubes measuring 5" diameter minimum x 36" long to store the rolled traffic sign.
60-11-1000	1	Rear left side compartments full height Ventilation fan will be a the bottom of the compartment. The dimension of the fan are 10-1/2" thick by 18" wide and 22" long. Shoreline outlets will be in this compartment - one (1) at the lower portion of the compartment, one (1) at the middle portion of the compartment and one (1) at the upper portion of the compartment.
60-11-1400	1	Rear right side compartments full height E Tool board and traffic cone storage will be in this compartment
60-11-2000	2	High side compartment (over 18") each The compartments will be a full pass through. Will have a SlideMaster 600lb tray installed on each side 60-99-20AA - half depth
60-11-3000	1	Rear compartment with double doors 60-11-4510 LED Tube lights on the side edges of the door

PART NO	QTY	DESCRIPTION
60-11-4510	1	Flush mount aluminum door - double with "D" handle
60-11-5500	2	Rollup door - standard height The rolls will be located at the bottom of the coffin compartments Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5520	4	Rollup door - full height The rolls will be located at the bottom of the coffin compartments Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5655	2	Amdor Pull strap - Flex HD Include with door order Metalfab part number 1003066 Amdor part number AY-9355-18 For door opening height of 20" to 37" Installed on the following doors Left side door over rear wheels Right side door over rear wheels SOPT 1114
60-11-5660	4	Amdor Pull strap - Flex HD Include with door order Metalfab part number 1003068 Amdor part number AY-9355-36 For door opening height of 49" to 70" Installed on the following doors Left side front compartment door Left side rear compartment door Right side front compartment door Right side rear compartment door SOPT 1114
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 Make the ladder go as high as possible. Minimum 7" clearance between rung and any obstruction. Note - Handle and possibly lower rungs will stick out past rear step when in the stowed position. Accepted by the department at the pre-construction meeting of 06.14.2018
60-31-5800	1	Special step over rear compartment The three in row clearance lights will be recessed (flush mount) in this step - reinforce as required.
60-31-6500	1	Compartment matting-Interlocking tile
60-31-83AA	3	PAK-Trak tool board Tool boards will be covered with PAK-Trak (1562630) PAK-Trak mounted horizontally on tool boards Tool board #1 - Right side rear compartment (R3) spaced evenly in the rearward area of the compartment beside the traffic cone storage - Both sides covered Tool board #2 - Left side compartment on upper pull out tray - one side only covered Tool board #3 - Right side compartment on upper pull out tray - one side only covered SOPT 624 Tool board #2 and #3 will be installed towards the back of the body to allow the installation of the Kussmaul conditioner (20-51-6500) on the front wall of the body.

PART NO	QTY	DESCRIPTION
60-31-8400	3	<p>Fixed vertical partition One to mount extinguisher brackets in the tray in the rear compartment as shown on the proposal drawing Two (2) to restrain loose equipment in the L2/R2 compartments Exact locations to be determined at the first shop visit.</p>
60-31-8800	3	<p>Sliding tray (ea) - 600 pound capacity 1. L1 compartment at floor level 2. L3 compartment at floor level 3. Installed in the rear compartment for 2 SCBA, 2 bottles, 2 O2 bottles, medical bag and four (4) extinguishers. Extinguishers to be: 2 ABC that measure 7" diameter x 24" high 1 water that measures 7" diameter x 25" high 1 CO2 that measures 7" diameter x 28" high ***Hardware requires 3-1/2" of compartment height Reflective stripe is applied on the exposed edge for visibility when the compartment door is open</p>
60-31-9000	1	<p>Tip down tray - 30 degree, 250 pound capacity To be installed in the upper portion of L3 Reflective stripe is applied on the exposed edge for visibility when the compartment door is open</p>
60-31-9600	1	<p>Adjustable shelf (ea) Install in the middle portion of L3 compartment as shown on the proposal drawing. Reflective stripe is applied on the exposed edge for visibility when the compartment door is open.</p>
60-33-0000	1	<p>Paint exterior - Imron Elite *** Paint code and colour - Oxford white to match cab</p>
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-0500	1	<p>Paint chassis wheels job colour with silver trim Send photos of the wheel trim installed prior to to painting the wheels. The customer may leave the wheels gray.</p>
60-33-1500	1	Buffed finish compartment interior
60-33-2200	1	<p>Lettering - by AND Communication Quote in file Crests are customer supplied</p> <p>The customer supplied crests were given to the parts counter 06.15.2018</p>
60-33-3300	1	<p>Reflective stripe - special graphics - diamond grade 50% of perimeter each side and 25% of perimeter front By AND Communication - Quote in file.</p>
60-33-3310	1	<p>Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface By AND Communication - Quote in file.</p>
60-91-0900	4	<p>Top Mount Coffin compartment Sized as shown on the proposal drawing (top view) The floor will be notched for the Amdor door roll (there will be a void between the rollup door and the top of the body - behind the coffin compartment) for the wire raceway. Include compartment lights and door ajar switch A stokes basket that measures 25" wide x 81" long x 9" deep will fit in one coffin compartment. SOPT 625</p>

PART NO	QTY	DESCRIPTION
60-99-05AA	1	<p>Rear compartment storage module On slide out tray #3 as described in 60-31-8800 SOPT in file</p> <p>The extinguishers will be secured in tubes instead of brackets.</p>
60-99-10AA	1	<p>Modular drawers in R1 compartment Two (2) equal sized drawers as shown on the proposal drawing with lift and turn latches. SOPT 1187 (for reference only). The bottom of the drawers will have thin rubber matting like a tool box liner.</p> <p>The drawers will be full width of the compartment (the bottom drawer will have a small notch for the chassis suspension hanger). The height of the drawer module will be 1" less than the compartment depth change. This will allow the storage of traffic sign bases that measure 7" x 7" x 25" long.</p>
60-99-15AA	1	<p>Storage tube under walkway w/ door Storage for Customer's two 2-1/2" Suction hoses and 2 pike poles Customer to specify dimensions ; Suction hoses OA length - 130" Diameter of coupling at widest point - 4-1/2" Pike poles; Diameter of pike pole handle - will fit in a 2" id pipe OA Length of pike pole - 122" long with a 4" wide pike SOPT 683</p>
60-99-20AA	4	<p>600lb Slidemaster Aluminum pull out - 100% extension Pull out #1 - Left side front compartment - half depth Pull out #2 - right side front compartment - half depth Units in L1/R1 compartment must have 20" of space between the tray beneath Pull out #3 - Left side compartment over rear wheels - half depth Pull out #4 - Right side compartment over rear wheels - half depth SOPT 88a</p> <p>Pull out #1 and #2 will have the PAC track boards installed on the back portion of the tray (towards the back of the body)</p>
60-99-35AA	1	<p>Embossed aluminum checkplate overlays on top walkway SOPT 629</p>
70-21-5500	1	<p>Panel readout for Battery Conditioner Located on an angled standoff on front of body - left side</p>
	1	ACCESSORIES
80-18-06AA	1	<p>Aluminum box extinguisher holder. On the right side of the rear compartment storage module (60-99-05AA), there will be four (4) extinguisher modules that will carry extinguishers on their side. There will be one (1) CO2 on the bottom slot that measures 13" wide x 7" wide, two (2) ABC extinguishers above that measure 7" wide x 7" wide and one (1) water extinguisher on top that measures 7" wide x 7" wide. The extinguisher holders will be tipped slightly and material installed at the bottom of the holders to protect the extinguishers.</p>
80-99-40AA	1	<p>PAC Mounting hardware 3 - K5020 Fastlok adjustamount kit 4 - K5006 Adjustamount for hydraulic Rams Shipped loose - Customer will mount SOPT 698</p> <p>4 - K5006 Adjustamount for tripods 50-40-20AA</p>

PART NO	QTY	DESCRIPTION
		<p>1 - K5029-1 Bolt cutter kit 1 - K5011-Y Flathead axe hanger/pocket kit 1- K5032 Halligan tool mounting kit 1 - K5030-Y Universal saw kit Shipped loose - Customer will mount SOPT 698</p>
80-99-45AA	1	<p>Traffic cone stand w/ hinge, deck plate cover and handle Mounted in the right side rear compartment as shown on the proposal drawing See sketch on the SOPT in the file Customer to provide the number and size of the traffic cones to be stored - base is 14" x 14" and cone measures 28" high. Department will stack as many cones as possible.</p>
80-99-50AA	1	<p>Traffic sign tubes There will be a pair of 5" tubes measuring 36" long that will be installed in the front right side compartment to house rolled traffic signs. They will be installed between the drawers 60-99-10AA and the half depth SlideMaster tray.</p>
80-99-60AA	1	<p>Mount customer supplied battery chargers Mount customer supplied 6-unit gang charger, two (2) Dewalt chargers and two (2) Hurst chargers on the the tip down tray (60-31-9000). Chargers were logged in at parts counter 09.19.2018.</p>