FORM A: BID (See B8)

1.	Contract Title	SUPPLY & DELIVERY	OF A SERVICE TRUCK	
2.	Bidder	Name of Bidder		
		Usual Business Name of Bidd	er as it appears on Invoice (if differer	it from above)
		Street		
		City	Province	Postal Code
		Email Address of Bidder		
		Facsimile Number		
	(Mailing address if different)	Street or P.O. Box		
		City	Province	Postal Code
		GST Registration Number (if a	applicable)	
		The Bidder is:		
	(Choose one)	a sole proprietor		
		a partnership		
		a corporation		
		carrying on business un	der the above name.	
3.	Contact Person	The Bidder hereby auth the Bidder for purposes	orizes the following contact p of the Bid.	person to represent
		Contact Person	Title	
		Telephone Number	Facsimile Number	
		Email Address		
4.	Definitions		sed in the Contract shall h General Conditions and D3.	ave the meanings

- 5. Offer The Bidder hereby offers to perform the Work in accordance with the Contract for the price(s), in Canadian funds, set out on Form B: Prices, appended hereto. 6. Commencement The Bidder agrees that no Work shall commence until he/she is in of the Work receipt of a notice of award from the Award Authority authorizing the commencement of the Work. 7. The Bidder agrees that the Bid Opportunity in its entirety shall be Contract deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Bid. 8. Addenda The Bidder certifies that the following addenda have been received and agrees that they shall be deemed to form a part of the Contract: Dated No.
- 9. Time This offer shall be open for acceptance, binding and irrevocable for a period of sixty (60) Calendar Days following the Submission Deadline.
- 10. Signatures
 The Bidder or the Bidder's authorized official or officials have signed this

 _______day of ______, 20_____.

Signature of Bidder or Bidder's Authorized Official or Officials

(Print here name and official capacity of individual whose signature appears above)

(Print here name and official capacity of individual whose signature appears above)

FORM B: PRICES (See B9)

SUPPLY & DELIVERY OF A SERVICE TRUCK

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	Service Truck	17032	Each	1	

Name of Bidder

FORM N: DETAILED SPECIFICATIONS 17032

SERVICE TRUCK

1.0 DESCRIPTION OF EQUIPMENT/APPLICATION-

1.1 These specifications describe <u>Service Truck</u> and other equipment and features as specified herein. This unit is an integral portion of the City of Winnipeg Fire Paramedic Service. This vehicle is will be tasked with responsibilities of transporting larger pieces of equipment and or supply within the City of Winnipeg. This unit is also required to tow the WFPS Hazmat Decontamination Trailers. Below are photos of the current service truck and Hazmat Decontamination Trailer.



- 1.2 The <u>Service Truck</u> shall be new 2017 model year or newer.
- 1.3 The <u>Service Truck</u> and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated and attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.

2.0 OTHER SPECIFICATIONS AND STANDARDS

- 2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 The **Service Truck** shall comply with the applicable regulations:
 - Highway Traffic Act
 - Manitoba Motor Vehicle Act
 - Canadian Motor Vehicle Safety Standards, CMVSS Transport Canada
 - National Safety Mark, NSM
 - Manitoba/Winnipeg Safety and Health Act, Parts 12, 22
 - Canadian Standards Association, CSA
 - Under Writers of Canada, U/L
 - Society of Automotive Engineers, SAE
 - City of Winnipeg Lighting Visibility
 - Standard=http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf.
- 2.3 It will be the responsibility of the Bidder to inform the City of any deficiencies in these specifications, for under this Contract the Contractor shall be held responsible for the design, performance, reliability and satisfactory operational function of the units.

2.4 The manufacturer/installer shall be a certified vehicle completer and must affix their National Safety Mark (NSM) certification sticker on each unit.

State NSM number:_____

3.0 SERVICE FACILITY-

3.1 For the purpose of warranty repairs, the supplier shall have an authorized service facility located within 10 kilometres of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Further to B11., Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

4.0 <u>REFERENCES-</u>

4.1 If available, please provide five (5) Canadian references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

5.0 MAKE & MODEL-

5.1 State make and model of the Service Truck being bid-

6.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS-

- 6.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Bid Opportunity package.
- 6.2 All items in these specifications must be answered indicating compliance or non-compliance. **BIDDERS SHALL STATE "YES" FOR COMPLIANCE OR STATE DEVIATION**, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

6.3 EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID

7.0 PERFORMANCE RELIABILITY-

- 7.1 The responsibility for the design of the **Service Truck**, its performance and reliability shall rest upon the Contractor.
- 7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.

- 7.3 Where the **Service Truck** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.
- 7.4 The equipment shall be capable of consistent top performance in City of Winnipeg Environment. Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C)
- 8.0 <u>FUEL</u>
- 8.1 The <u>Service Truck</u> must be fully fuelled upon delivery (no exceptions).

9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR

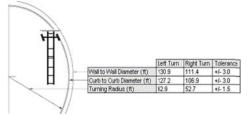
- 9.1 The manufacturer of the <u>Service Truck</u> shall have five (5) years continuous experience manufacturing <u>Service Trucks.</u>
- 9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.
- 9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining <u>Service Trucks</u> of the type being offered.

10.0 CHASSIS SPECIFICATIONS-

10.1	GVWR	The Trucks shall not exceed the City of Winnipeg's limit for gross vehicle weight, axle and tire loads	
		Note: The City of Winnipeg and the Province of Manitoba limits the gross vehicle weight and axle and tire loads to:	
		•Front axle (steering axle) – 7300 kg (16,094 lbs.)	
		•Rear axle (tandem axle) – 9100 kg (20,056 lbs.)	
		•Tire load – 9 kilograms for each millimeter width of tire (approx. 500 lbs. per inch of tire width).	
10.2	Weigh scale ticket	The Contractor shall provide a certified weigh scale ticket upon delivery of the completed unit. The scale ticket shall include front and rear axle weights including two (2) operators, and all attachments.	
10.3	GVWR/Dimensions/Turning Radius	•GVWR Total- 39,000 lbs •GVWR Front- 16,000 lbs. •GVWR Rear- 23,000 lbs.	

10.4	Cab to Axle-	As required for a 10' x 8' Service Body and Hiab Model 125 crane	
10.5	Wheelbase-	As required for a 10' x 8' Service Body and Hiab Model 125 crane	
10.6	After-frame-	As required for a 10' x 8' Service Body and Hiab Model 125 crane	
10.7	Turning radius-	Turning Radius- State the vehicle turning radius-	

Example:



- a)
- b)
- Wall to Wall (ft) Curb to Curb(ft)-Turning Radius (ft)c)

Engine	Tier IV Final Diesel, inline 6-cylinder	
Horsepower	370 HP gross	
Torque	1250 lbs. ft. torque	
Engine shut down	Low oil pressure / high water temperature	
Air intake warmer	Required	
Fuel Shut-off	Electric solenoid type	
Air intake	Fire Ember Screen Type	
Air cleaner	Dual stage air cleaner	
Air intake restriction	Dash mounted restriction indicator	
Oil drain plug	Magnetic type	
Oil filter	Full flow, spin-on type	
Fuel filter	Spin-on type	
Fuel/water separator	Heated, drainable under hood	
Fuel line primer pump	Required	
Block heater	Immersion type, 1000 Watt with covered recessed male plug, located under driver's side door	
Radiator	Aluminum 1200 square inch	
Coolant	Extended Life coolant, antifreeze to - 35°F 37°C)	

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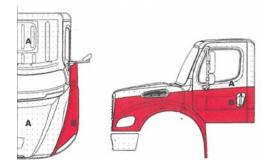
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10.25	Coolant filter	Required	
10.26	Coolant hoses	Silicone type or Gates Blue Stripe	
10.27	Fan Drive	Thermostatically controlled, automatic type with dash switch	
10.28	Air compressor	Water cooled, pressure lubricated, 15-18 cfm	
10.29	Electrical connector's	Plug-in, sealed type	
10.30	Anti-corrosion electrical package	Controllers and sensitive electrical components (PCM, Harnesses' s etc.) mounted in cab preferred. State locations-	
10.31	Alternator	160-190 Amp brushless type	
10.32	Starter	With over crank protect and thermal protection	
10.33	Circuit breakers	Auto-reset, readily accessible	
10.34	Batteries/Battery location	Three (3) batteries, 12-volt, group 31, approx. 2700 CCA combined preferably located under steps. Batteries not to impede with the installation of a 10' x 8' Service Body and Hiab Model 125 crane State location-	
10.35	Battery disconnect	In-cab mounted outboard of driver's seat preferred. State location-	
10.36	Battery boost terminal	Remote battery boosts terminal(s), protected from road spray. State location-	
10.37	Cab marker lights	LED Cab or Sun Visor Marker Lights	
10.38	Cab Light Bar	Light Bar 60" LED FN60VLE Make Whelen Model Freedom	
		THE THE THE RULE OF THE	
10.39	2-way radio circuit	Independent 20 Amp circuit, ignition powered, wired under dash loose, labelled	
10.40	Accessory switches	Six (6) required. All switches complete and wired for body installation, labeled and backlit	

10.41	Exhaust	Passenger side horizontal exhaust routed behind the rear axle. Configuration as required for As required for a 10' x 8' Service Body and Hiab Model 125 crane Exhaust not to impede in the installation of the body. State type and location-	
10.42	Transmission	Emergency Service Rated Allison 3000 EVS with 6-speed programming, Ratio shall be as per inter-city transport application. Transmission shall come with load base Management Programming. Bidder shall provide Allison SCAAN with bid.	
10.43	Transmission Fluids	Synthetic	
10.44	Shift selector	Digital push-button type, dash mounted	
10.45	Cooling capacity	Water to oil transmission cooler, as per manufacturer's recommendation for severe duty cycle	
10.46	Oil level dipstick	Bayonet type with high and low level markings	
10.47	Trans. drain plug	Magnetic type	
10.48	Front Axle	Set back axle , Meritor 16,000 lbs. capacity, with synthetic fluid.	
10.49	Rear Axle	Meritor 23,000 lbs. capacity, with synthetic fluid.	
10.50	Ratio	For 110 km/hr, as recommended for service body application, state ratio-	
10.51	Inter-axle lock	Required w/dash mtd. switch	
10.52	Differential lock	Required for drive axle w/dash mtd. Switch	
10.53	Hub Seals	Oil lubricated front and rear type	
10.54	Front Suspension	Multi-leaf spring suspension, 16,000 lbs. capacity	
10.55	Rear Suspension	Air ride suspension, 23,000 lbs. capacity, axle, shall be as recommended for a 10' x 8' Service Body and Hiab Model 125 crane application	
10.56	Suspension control valve	Manual dump valve for air suspension c/w dash mtd. switch, indicator light, gauge and buzzer	
10.57	Front Wheels	Aluminum, hub piloted, rated for requested GVWR	

10.58	Rear Wheels	Aluminum, hub piloted, rated for requested GVWR	
10.59	Hubs	Aluminum material	
10.60	Wheel nut indicators	Required on all wheel nuts	
10.61	Front Tires	385R 22.5 18 ply, snow, mud and ice rated for requested GVWR and application	
10.62	Rear Tires	11R 22.5 16 ply, snow, mud and ice rated for requested GVWR and application	
10.63	Frame	Single rail	
10.64	Frame/Cross member rust inhibitor	Required, state make and type-	
10.65	Chassis fasteners	Grade-8 threaded hex headed frame fasteners	
10.66	After-frame	As recommended for a 10' x 8' Service Body and Hiab Model 125 crane	
10.67	Steering	Tilt and telescopic, power, rated for front GVWR rating. Reservoir approx. 2 quart with see through tank.	
10.68	Brakes	Air, ABS, S-cam drum brakes, front & rear	
		Front 16.5" X 6" Rear 16.5" X 7"	
10.69	Slack adjusters	(Clearance sensing), automatic type	
10.70	Parking brake	Spring set, four (4) chamber system	
10.71	Brake pots	Vented type	
10.72	Dust shields	Required, front and rear	
10.73	Air Tanks	All tanks shall be aluminum air reservoirs	
10.74	Moisture ejector	Wabco, heated, required in all air tanks	
10.75	Drain valves	Manual, chain or cable operated, required on each air tank	
10.76	Air dryer	Wabco Heated System Save 1200	
10.77	Fuel Tank	Single 50 gallon fuel tank. Tank shall be fully fuelled upon delivery. Shall not impede in the installation of a 10' x 8' Service Body and Hiab Model 125 crane	
10.78	Fuel Water Separator	Heated Fuel water separator	

10.79	Tank straps	Steel straps with 1/16 in. rubber or neoprene isolators to prevent galvanic corrosion	
10.80	Cab	Conventional w/corrosion inhibitor	
10.81	Cab Construction	Aluminum or galvanized steel construction	
10.82	Bumper to Back of Cab	BBC 106-117 in., state-	
10.83	Cab mounts	Air suspension	
10.84	Hood	High visibility hood	
10.85	Hood Fender Extensions	2-3" front fender extensions	
10.86	Front grille	Stationary mounted to hood	
10.87	Cab interior / trim	Extreme climate insulation including cloth or vinyl headliner on roof, door panels and rear interior of cab	
10.88	Cab silencer package	Required for minimal decibel level	
10.89	Hood/Firewall/Engine insulations	Insulated hood liner, engine cover and firewall	
10.90	Floor covering	Rubber mat with under-padding	
10.91	Floor mats	Two (2), rubber	
10.92	Driver's seat	High back, air suspension w/foldable armrests, heavy-duty cloth upholstery, Cordura or equal	
10.93	Passenger seat	High back, air suspension w/foldable armrests, heavy-duty cloth upholstery, Cordura or equal	
10.94	Sun visors	Dual flip-up type	
10.95	Steering wheel	Tilt and telescopic type	
10.96	12-Volt power outlet	(2) required with independent circuit	
10.97	Radio	Factory installed AM/FM/ with "hand free" Blue Tooth capability	
10.98	Starter switch	Key operated c/w three (3) sets of keys	
10.99	Interior light	Dome light with driver and passenger door switches	
10.100	Heater / Defroster	High output, capable of keeping all windows clear at an outside temperature of (-40°C)	
10.101	Air conditioning	Required	
10.102	Brake, accelerator, pedals	Floor or hanging type brake and accelerator pedal, state-	

10.103	Horn	Dual electric
10.104	Exterior mirrors	Mirrors heated, lighted, 4-way motorized adjustment (with convex mirrors), suitable for 102 in. equipment width
10.105	Down-view mirror	Required over passenger door, 5" x 4" approx.
10.106	Windows & windshield	Tinted
10.107	Power windows	Power driver and passenger side
10.108	Doors	Power door locks
10.109	Windshield wipers	Electric intermittent
10.110	Wiper blades	Heavy duty with winter type boot
10.111	Windshield washers	Electric, required with spray nozzles on wiper Blades preferred
10.112	Grab handles	Dual exterior
10.113	Grab handles	Dual Interior
10.114	Entrance steps	Dual each side, open grate / grip type
10.115	Winter front	Heavy-duty vinyl w/twist lock or snap
10.116	Exterior Sun Visor	Required
10.117	Strobe LED lights	Dual amber LED class I strobe lights with stainless brackets mounted to B-Pillar
10.118	Instrumentation	Oil pressure gauge, Coolant temperature gauge, Transmission oil temperature gauge, Voltmeter gauge, Air reservoir pressure gauge with LAP warning light and buzzer, Low Oil Pressure High Water Temperature Warning light and buzzer and non-resettable type Engine hour- meter
10.119	Tow Hooks	Front mounted and Rear mounted
10.120	Exterior Colour	Painted two tone, with bottom half red (B) to match Dupont C8053U (Candy Apple Red) and top half Black (A)



10.121 Interior Colour

10.122 Flare kit

10.123 Fire Extinguisher

10.124 Tool Boxes

Grey

Three (3) triangular reflectors, CVSA approved. Kit must be mounted or secured.

5 lbs. Fire Extinguisher ABC type installed and secured, **state** location

Two (2) Aluminum Tool Boxes required mounted on driver and passenger side frame. **State** dimensions, material, and recommended location as set by the manufacturer



CRANE

10.125 Crane

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An existing Crane from a decommissioned vehicle shall be removed and reinstalled on the new service truck. It is the responsibility of the Contractor to provide all necessary safety certifications required to place the crane back into service.

Make- Hiab Model Type- 125 Manufacturer No. 127018

The following is required:

- New PTO and Pump to match the chassis transmission.
- New mounting bolts
- New hydraulic oil and filter
- New pressure and return lines
- Only OEM Hiab parts to be used.
- Hiab approved weight and center of gravity report.



crane operation, state height-

SERVICE BODY SPECIFICATIONS

10.126	Outside Body Length
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- 10.127 Inside Body Length
- 10.128 Outside Body Width

10.129 Inside Width

10.130 Side Wall Height

10.131 Front Wall Height

Length, outside – nominal 10 ft.	
Length, inside – 9' 6" approx.	
Width, outside – to match chassis track width, nominal 8' 6" approx.	
Width, inside – 8' approx.	
Height of side walls – 36 in. approx. and with split drop down sides.	
Height of front wall – Not to impede with	

MATERIAL

10.145 Capacity

10.132	Construction Material	All material used in construction to be 3/16 in. Hardox 450 with exception of the cab shield.	
	FRONT		
10.133	Front	Construction – 3/16 in. continuously welded to sides and floor.	
10.134	Front Construction	Heavy duty steel front with angled corners with 3/16 in. sheeting on 3" tubular frame.	
	FLOOR AND SIDES		
10.135	Material	Construction – 3/16 in. single walled.	
10.136	Long Sill material	Long sills – 7" channel long sills and 4" I- beam cross members on 12" centers	
10.137	Rear post material	Rear side posts – Shall be built to accommodate rail lift tailgate.	
10.138	Top side rail material	Top side rail – heavy duty, approx. 4" x 6" x 3/16"	
10.139	Tie Downs	Six (6) required, three (3) per side located on inside of service body. Tie downs shall be counter sunk with D- rings. Exact locations to be determined upon a pre-production meeting.	
10.140	Access Ladders	Two (2) required, bolt-on design, one (1) located front curb-side corner and one (1) located front driver's side corner.	
10.141	Ladder Rungs	Traction type rungs, 13-gauge steel, 2¼ in. width, 2 or 4-hole design, Traction Tread Products or equal.	
10.142	Ladder Rungs Location	First rung to be 18-22 in. from ground level, approx. 14 in. rung spacing to top of body.	
10.143	Grab Handles	Located for ergonomic access to top of box.	
	TAILGATE		
10.144	Style	Column Lift Gate	

Approx. 4400 lbs.

10.146	Material	Aluminum platform and lift frame to be galvanized steel	
10.147	Dimensions	72" long X 96" wide	
10.148	Functions	Power up / power down and Power open / power close	
10.149	Operation	4 way main toggle control with auxiliary hand held remote	
	ELECTRICAL & LIGHTING		
10.150	Conformance	All lighting to conform to C.M.V.S.S. and Manitoba Highway Traffic Act.	
10.151	Lighting	Supplier installed shall be high count Class 1 LED lighting and shall be Truck- Lite, Grote, Whelen or equivalent	
10.152	Grille Lights	2 X Grille Lights Red Make Whelen Model 600 LED or equivalent.	
10.153	Mid Body Lights	2 X Side Intersection Lights RedMake Whelen Model 600 LED or equivalent Exact location to be determined at pre- production meeting.	
10.154	Under Body Lighting	2 X Scene Lights Make FRC LED Model 900-Q65 Mounted under body. Exact location to be determined at pre- production meeting.	
10.155	Ground Lighting	4X Ground Lights Make Luma Model Bar H20-12". Exact location to be determined at pre-production meeting.	
10.156	Grommets	Rubber grommets required.	
10.157	Combination turn/stop and taillights	One (1) per side with mounting grommets	
10.158	Back-up lights	One (1) per side with mounting grommets.	
10.159	Light cluster	Three (3) with mounting grommets, located to be protected from damage.	
10.160	Rear light mounting location	Taillights, back-up lights, 3-light cluster and rear-corner mounted clearance lights shall be mounted in the rear sill of the body.	
10.161	Clearance lamps	High count LED with mounting grommets.	

10.162	Clearance lamp mounting locations:	Front – two (2), located one on each bottom corner	
		Sides – two (2) per side, located on front and rear bottom corners.	
		Rear – two (2), located one on each bottom corner.	
10.163	Standard	No clearance light shall protrude beyond the body.	
10.164	Standard	Taillights and back-up lights shall be fully visible when tailgate is lowered to horizontal position.	
10.165	Licence plate lamp	Complete with licence plate bracket.	
10.166	Harnesses	Harness system, properly routed and secured. All harnesses shall be internally grounded, no exceptions.	
10.167	Junction box	Junction box complete with necessary compression fittings, required for all vehicle lighting harness connections, located inside rear of truck frame.	
10.168	All plug-in connectors	All plug-in connectors shall be coated with NYK compound prior to assembly.	
10.169	Back-up alarm	97 dB(A), installed near rear of body, located to be protected from damage.	
10.170	Amber strobe lights	Two (2) oval LED strobe lights rear facing in rear corner B- pillars, one per side	
10.171	Wiring	All LED strobe lights shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled "Strobes" with a permanent type, engraved style label. All wiring for back-up alarm, warning lights, strobes and trailer connector shall be colour coded, loomed and properly secured.	
10.172	Trailer connector	SAE J560 7 way primary trailer receptacle.	
10.173	Electrical connectors	All electrical connectors shall be crimped and soldered, then sealed using heat shrink tubing.	

Bid Opp	r of Winnipeg ortunity No. 326-2017 n: F020170317 - Fleet		Submission ge 18 of 23
10.174	Joining of wires	All joining of wires shall be soldered an sealed using heat shrink tubing of approved OEM weather tight connection (crimp on electrical connectors for joining wires are not acceptable).	or IS
10.175	Wiring routing	Any holes required to run wires throug shall be drilled (not punched), grommete and sealed as required.	
	WELDING		
10.176	Standard	All welds shall be continuous welds. A welding performed shall conform to CS Standard W47.1-03 and W59-03.	
10.177	Inspection	All welds are subject to inspection by City of Winnipeg Qualified Inspector.	a
	INSTALLATION		
10.178	Drilling	Any holes required in the chassis fram web must be drilled and reamed to the bolts.	
10.179	Standard	Drilling on chassis frame flanges is no permitted. Welding on the chassis frame not permitted, with the exception of installation of body pivot support.	s
10.180	Tire clearance	Three inches (3 in.) with rear suspensio air bags lowered.	n
10.181	Clearance	Clearance between body and back of truck cab shall be 3 in	of
	MISCELLANEOUS		

10.182 Rear hitch plate

 $^{1\!\!/_2}$ in. thick solid steel, (laminated plates unacceptable) installed to chassis frame.



Template Versio	m: F020170317 - Fleet		
10.183	"A" frame hitch reinforcement	3" x 3" x ¼" angle iron, welded to back of hitch plate and bolted to chassis frame web.	
10.184	Pintle hitch	Adjustable in height type, installed on hitch plate at a 24 in. height.	
10.185	Lunette eyes for trailer safety chains	One (1) each side of hitch, Buyers Products or equal.	
10.186	Rear Fenders	Heavy Duty rear poly half-moon fenders. Shall be installed to have sufficient clearance from body and when chassis suspension is dumped.	
10.187	Mud flaps	Black rubber, no-name, required front and rear of back tires c/w anti-sail bracket on each mud-flap.	
10.188	Grease fittings	Required on tailgate release mechanisms, pivot points and tailgate as required.	
10.189	Isolators	All interfaces between aluminium and steel shall be separated by a minimum of 1/16 in. thick rubber or neoprene sheet and are to be bolted through with stainless steel bolts and non-conductive bushings	
	<u>FINISH</u>		
10.190	Finish	All hitch plates, reservoirs, steel brackets, etc. shall be sandblasted, properly cleaned, primed and finished with the Endura paint process as follows:	
10.191	Primer	Dupont or Endura EP32 Intermix Epoxy Primer.	

10.192 Paint 3-5 mils of Endura EX-2C Topcoat or Dupont, black.

<u>WARRANTY</u>

10.193	Warranty	The body warranty on the complete vehicle (excluding the chassis) shall include 100% replacement parts and labour at no cost to the City and shall cover the complete equipment and all parts thereof against defects of workmanship, construction and materials for one (1) year from the date the equipment is put into service by the City of Winnipeg.	
10.194	Electrical Warranty	One (1) year	
10.195	LED Lighting Warranty	State-	

10.196 • All warranty information shall be detailed and include all exclusions. The successful Bidder shall provide all published warranty information upon delivery of the equipment. Bidder shall state all warranty information.

•Basic Vehicle	One (1) year, unlimited km, state-	
•Batteries	One (1) year, unlimited km state-	
•Drivetrain	Two (2) years, unlimited km state-	
•Cab structure/corrosion	Five (5) years, unlimited km state-	
•Frame & Cross-members	Five (5) years, unlimited km state-	
•Cab paint	One (1) year or 160,000 km state-	
•Engine	Three (3) years or 240 000 km state-	
•Transmission	Two (2) years, unlimited km state-	
•Axles, front & rear-	Two (2) years or 161 000 km state-	

11.0 **DELIVERY**

- 11.1 Delivery Point: The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order
- 11.2 Delivery Time: Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days no later than **November 15th, 2017**.
- 11.3 Delivery Contact: The Contractor shall contact the Contract Administrator prior to delivery of the equipment.
- 11.4 P.D.I: A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list

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12.0 **MANUALS**

- 12.1 Manuals supplied under this Contract. The manuals shall cover the complete equipment including all components thereof, CD or USB flash drive is preferred where available.
- 12.2 The following manuals shall be supplied with the units when delivered:

a) Operator's manual – Two (2) per unit (one operator manual shall be sent to the Equipment Operator Training Branch

b) Parts and service manuals – One (1) complete sets including preventative maintenance schedules. CDs or USB flash drive are preferred.

13.0 FIRST SERVICE PREVENTATIVE MAINTENANCE KIT

- 13.1 In order to assure minimum downtime of the equipment in future service, the Contractor shall provide for <u>the chassis only</u> one (1) complete replacement set of new OEM filters for each unit purchased. The set of required filters shall include (if applicable to the equipment type) air, fuel, oil, cab and hydraulic, or otherwise all known necessary common replacement filters required for the first preventative maintenance servicing.
- 13.2 The Contractor shall provide a list of factory recommended lubricants to be used with the equipment, as well as a complete cross reference guide for all warranty approved lubricants and filters that can be used during preventative maintenance servicing.

14.0 DISCOUNT FOR PARTS AND LABOUR

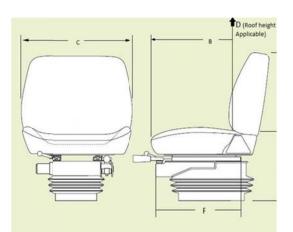
14.0 State Parts and Labor discount-

15.0 ERGONOMICS

Entry/ Exit

15.1	First step entry height	State, height of first step in inches	
15.2	First handhold entry height	State, first handhold entry height in inches	
15.3	Access to equipment	State, door opening height in inches	
15.4	Access to equipment	State, door opening width in inches	
15.5	Designed to prevent slipping	Anti-slip steps/handholds (Y or N)?	

Seat (use below diagram to answer questions)



- 15.6 Sitting height range from floor (where feet rest) (A)
- 15.7 Seat length/depth (B)
- 15.8 Seat width (C)
- 15.9 Cab height from seat to roof (if applicable) (D)
- 15.10 Back rest height (E)
- 15.11 Seat travel range (F)
- 15.12 Lumbar support
- 15.13 Head rest
- 15.14 Seat is made of breathable material

- State, seat height range in inches
- State, seat length/depth in inches
 - State, seat width in inches
 - State, cab height range in inches
 - State, back rest height in inches
 - State, seat travel in inches
 - Is lumbar support provided (Y or N)?
- Is head rest provided (Y or N)?
 - State, type of seat material

Operation

15.15	a) Reaching distance to usual work	State, reaching distance in inches	
15.16	b) Maximum reaching distance	State, maximum reach distance in inches	
15.17	Adjustable pedals (accelerator/brake/clutch)	Are pedals adjustable (Y or N)?	
15.18	Adjustable steering wheel	Is steering wheel adjustable (Y or N)?	
15.19	Adjustable shoulder belt	Is belt adjustable and anchored (Y or N)?	
	Cargo Area		
15.20	Lid opens to provide adequate space	Adequate space provided (Y or N)?	

15.21	Loading height	State, trunk height in inches	
	Environment		
15.22	Operator compartment is insulated from equipment noise (while operating)	State, dBA inside cab while operating	
15.23	Operator insulated from equipment vibration	Is operator insulated from vibration (Y or N)?	
15.24	Heating/cooling systems	State, cab temperature range	
15.25	Cab lighting	State, lumens inside cab	
	Maintenance/ Inspection		
15.26	Lift assistance provided (when necessary)	Is lift assistance provided (Y or N)?	
15.27	Easy access to compartment doors	Is easy access provided (Y or N)?	
15.28	Include any other relevant ergonomic specifications and applicable range of adjustment		