# PART A BID SUBMISSION

#### FORM A: BID (See B7)

1.	Project Title	SUPPLY & DELIVERY OF CUTAWAY VANS WITH ALUMINUM
		BODIES

2.	Bidder			
		Name of Bidder		
		Street		
		City	Province	Postal Code
	(Mailing address if different)	Street or P.O. Box		
		City	Province	Postal Code
		The Bidder is:		
	(Choose one)	a sole proprietor		
		a partnership		
		a corporation		
		carrying on business ur	der the above name.	
3.	Contact Person	The Bidder hereby auth the Bidder for purposes	norizes the following contact p of the Bid.	erson to represent
		Contact Person	Title	
		Telephone Number	Facsimile Number	e-mail address
4.	Definitions		used in the Contract shall have General Conditions and D3	
5.	Offer		ers to perform the Work in ac ), in Canadian funds, set out o	

6.	Commencement of the Work	The Bidder agrees that no Work shall commence until he is in receipt of a Purchase Order authorizing the commencement of the Work.
7.	Contract	The Bidder agrees that the Bid Opportunity in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to accompany this Bid Submission.
8.	Addenda	The Bidder certifies that the following addenda have been received an agrees that they shall be deemed to form a part of the Contract:
		No Dated
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	In witness whereof the Bidder or the Bidder's authorized official 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 B8)

### **CUTAWAY VANS WITH ALUMINUM BODIES**

#### UNIT PRICES

UNIT	UNIT PRICES					
ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1	Supply & Delivery of Cutaway Vans with Aluminum Bodies	06023	Each	(9)	\$	\$
2	Parts manuals, CD preferred	06023	Each	(2) Sets	\$	\$
3	Technical service manuals, CD preferred	06023	Each	(2) Sets	\$	\$
TOTAL BID PRICE (GST and PST extra) (in figures) \$  (in words)						
					Name of Bidder	
					Name of bluder	

#### **FORM N: DETAILED SPECIFICATIONS 06023**

#### **SUPPLY & DELIVERY OF CUTAWAY VANS WITH ALUMINUM BODIES**

#### 1.0 <u>TYPE</u>

- 1.1 Shall be a nominal approx. **15FT. ALUMINIUM VAN BODIES INSTALLED ON A CUTAWAY VAN CHASSIS** supplied by the Successful Bidder. The completed vehicle shall be furnished complete and ready for use with all features and auxiliary equipment as described herein.
- 1.2 State make and model of van body being bid:\_\_

#### 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 completed unit and all its components shall comply with all C.M.V.S.S. Canadian Motor Vehicle Safety Standards, M.H.T.A. Manitoba Highway Traffic Act, S.S.A Safety Standards Act, F.M.V.S.S Federal Motor Vehicle Safety Standards, D.O.T Department of Transportation, regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker on the driver's side window.

#### 3.0 **SERVICE FACILITY**

- 3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km 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 B9.1, 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.
- 3.1.1 If a suitable warranty facility is not available within 10 km of the boundaries of the City of Winnipeg, the Bidder may propose that the City of Winnipeg Repair Facility perform warranty work. Any Work performed by the City of Winnipeg Repair Facility shall be charged to the Contractor at the Facility's shop rate in effect at the time the work is performed (FOR EXAMPLE, SHOP RATE FOR 2007: \$80.00/HOUR AND \$105.00/HOUR FOR OVERTIME AND CALLOUT).
- 3.2. LOCATION OF THE SERVICE FACILITY LOCATED WITHIN 10 KM OF THE BOUNDARIES OF THE CITY OF WINNIPEG.

The Bidder shall choose and fill in ONE of the Clauses listed below. --- 3.2.1) OR 3.2.2)

3.2.1 Bidder's own facility location. State the location of the service facility below.

2	Bidder elects to have	warranty work be performed by the City of Winnipeg.				
	INSTRUCTIONS FOR	R COMPLETION OF SPECIFICATIONS				
	Where requested to do so with exception of Clause 43.2, 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.					
	Each bidder is required to fill in every blank. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID.					
		S SPECIFICATIONS- ELIGBLE MODEL GMC C6500 /ALENT ACCORDING TO B.5 SUBSTITES STATED				
	GVWR	25,500 lbs.				
	FRONT	8,000 lbs. minimum				
	REAR	17,500 lbs. minimum				
	GCW	Gross Combined Weight 25,500 lbs. minimum				
	DIMENSIONS-					
	<u> </u>	equired for an approx. 15 ft. interior measurement. of drivers seat to back doors). <b>STATE WB-</b>				
	CAB TO AXLE - As I	required for requested finished interior cargo length.				
	(Measured from rear	of drivers seat to back doors). STATE CA-				
	ENGINE-					
	<u>Type</u>	Diesel, inline 6-cylinder, Caterpillar C7				
	<u>Horsepower</u>	230 hp gross minimum				
	<u>Torque</u>	540 lb-ft minimum				
	Engine shut down	Low oil pressure / high water temperature				
	Anti-idling	Programmable anti-idling shut down				
	Air intake warmer	Required				
	Fuel Shut-off	Electric solenoid type				
	Air cleaner	Dry type standard filter element				

7.9	Air intake restriction	Dash mounted restriction indicator	
7.10	Oil drain plug	Magnetic type	
7.11	Oil filter	Full flow, spin-on type	
7.12	<u>Fuel filter</u>	Spin-on type	
7.13	Fuel/water separator	Heated, drainable, mounted under hood, located to be protected from road spray. <b>State location-</b>	
7.14	Fuel line primer pump	Required	
7.15	Block heater	Immersion type, 1500 Watt minimum w/ covered recessed male plug, located under driver's	
		side door	
7.16	<u>Coolant</u>	Extended Life coolant, antifreeze to -34°F	
7 47	Occilent Olive	Day to 1	
7.17	Coolant filter	Required	
7.18	Coolant hoses	Silicone type or Gates Blue Stripe	
7.19	Fan Drive	Thermostatically controlled, automatic type	
7.20	Air compressor	Air compressor required with minimum 13 cfm	
		_	
8.0	ELECTRICAL SYSTEM	_	
8.1	Electrical connectors	Plug-in, sealed type	
8.2	<u>Alternator</u>	Delco Remy 22-SI, 160 Amp	
8.3	<u>Starter</u>	Delco Remy 41-MT/OCP 450 Series with thermal protection	
8.4	Circuit breakers	Auto-reset, readily accessible	
8.5	<u>Batteries</u>	Three (3), 12-volt, group 31, 2100 CCA combined capacity minimum, must be deep cycle batteries.	
8.6	Battery Box	Under cab or frame mounted c/w enclosure	
		State Location-	
8.7	Remote boost terminal	Remote battery boost terminal, protected from road spray, covered, <b>state location-</b>	
8.8	Marker lights	Cab marker lights	
8.9	Accessory switches	Three (3) dash mounted rocker switches required, all switches complete and wired for body installation, labeled and backlit.	
9.0	EXHAUST SYSTEM		
9.1	Exhaust System	See item 36.14 in miscellaneous section	

10.0	TRANSMISSION		
10.1	<u>Model</u>	Allison 2200 RDS transmission with PTO provision	
		suitable for requested horsepower, torque and GVWF	₹.
		Must have Parking Pawl.	
10.2	Shift selector	Column Shift with Park Pawl, hand lever operated	
		transmission mounted park brake.	
10.3	Cooling capacity	Water to oil transmission cooler, as per manufacturer's recommendation for severe	
		duty cycle.	
10.4	Oil level dipstick	Bayonet type with high and low level markings	
10.5	Trans. drain plug	Magnetic type	
11.0	FRONT AXLE		
11.1	Front axle type	8000 lbs. capacity min., state make and model-	
10.0	REAR AXLE		
10.1	Rear axle type	17,500 lbs. capacity min., state make and model-	_
10.2	<u>Ratio</u>	For 110 km/hr maximum top speed, state ratio-	_
10.3	<u>Differential</u>	Rear limited slip differential	_
11.0	HUB SEALS		
11.1	<u>Type</u>	Oil lubricated front and rear	
12.0	FRONT SUSPENSION	<u>l</u>	
12.1	Front Suspension Type		
		minimum.	
4.5.			
13.0	REAR SUSPENSION		
13.1	Rear Suspension Type	Air ride suspension, 17,500 lbs. capacity minimum, state make and model-	

13.2	Suspension Control	Manual dump valve for air suspension c/w dash mounted switch, indicator light, gauge & buzzer.	
14.0	WHEELS		
14.1	Front	19.5 x 6.75 steel disk, hub piloted. Must meet GVWR	
14.2	Rear	19.5 x 6.75 steel disk, hub piloted. Must meet GVWR	
15.0	TIRES FRONT		
15.1	Front Tires	Must be steer tires, suitable for Manitoba weather conditions, (mud, snow, rain etc.) state tire make and model-	
15.2	<u>Size</u>	19.5 Low Profile, must meet requested GVWR	
16.0	TIRES REAR		
16.1	Rear Tires	Must be drive tires, suitable for Manitoba weather conditions, (mud, snow, rain etc.) state tire make	
40.0	0.	and model-	
16.2	<u>Size</u>	19.5 Low Profile, must meet requested GVWR	
17.0	<u>FRAME</u>		
17.1	<u>Type</u>	Single rail, <b>suitable for requested GVWR</b> , outside frame clear of components for body installation.	
17.2	<u>Application</u>	Suitable for cutaway van body application	
17.3	Chassis fasteners	Grade-8 threaded hex headed frame fasteners	
17.4	After frame	As required for cutaway van body application	
18.0	<u>STEERING</u>		
18.1	Steering Type	Power steering required	
10.0	DDAVES		
<b>19.0</b> 19.1	BRAKES Type	Hydraulic, ABS, front & rear brakes	
19.1	<u>Type</u> <u>Parking brake</u>	Transmission mounted parking brakes	
19.2	Moisture ejector	Bendix DV-2, heated, required in wet tank.	
	5.5.6.6.5 5,00.6.	20 27 2, risates, required in Not taint	

19.4	<u>Drain valves</u>	Manual, chain or cable operated, required on each air tank	
19.5	Air dryer	Heated Air Dryer required	
20.0	FUEL TANKS		
20.1	<u>Type</u>	Maximum fuel tank(s) capacity available for requeste cutaway van body application. Size to be determined during pre-production meeting.	
20.2	Tank straps	Steel straps with minimum 1/16 in. rubber or neoprene isolators to prevent galvanic corrosion.	
20.3	Fuel separator	Heated, drainable type	
21.0	CAB		
21.1	<u>Type</u>	CUTAWAY STYLE CAB ONLY, to accommodate cu	taway
		van body application. Cab must have corrosion	
		inhibitor.	
21.2	Construction	Aluminium or galvanized steel construction	
21.3	Front axle to (BOC)	State front axle to back of cab measurement-	
21.4	Cab mounts	Hystec Hydraulic cab mounts	
21.5	Front grille	Stationary type	
21.6	Cab interior / trim	Maximum Insulation including cloth or vinyl headliner on roof, door panels and rear interior of cab.	
21.7	Cab silencer package	Required for minimal decibel level	
21.8	Hood/Firewall/Engine	Insulated hood liner, engine cover and firewall	
21.9	Floor covering	Moulded vinyl floor covering with under-padding	
21.10	Floor mats	Three (3), rubber floor mats	
21.11	<u>Driver's seat</u>	One (1) High back, air suspension w/foldable armrests, heavy-duty cloth upholstery, <b>state make model of seat-</b>	
21.12	Passenger seat	One (1) High back, air suspension seats w/foldable armrests, heavy-duty cloth upholstery.	
21.13	Sun visors	Dual flip-up type	
21.14	Steering wheel	Tilt steering	
21.15	12-Volt power outlet	Two (2) Required on dash	
21.16	Radio	Factory installed AM/FM/CD	
21.17	Starter switch	Key operated c/w three (3) sets of keys	
21.18	Interior light	Dome light with driver and passenger door switches	

21.19	Heater / Defroster	High output, capable of keeping all windows clear at an outside temperature of -35°F (-37°C)	
21.20	Air conditioning	High out put air conditioning required	
21.21	Foot Pedals	Hanging type brake and accelerator pedals	
21.22	<u>Horn</u>	Dual electric	
21.23	Exterior mirrors	Dual black moulded composite aerodynamic mirrors, heated, lighted, 2-way motorized adjustment, exterior mirrors to include convex mirrors, suitable for 102 in. equipment width.	
21.24	Down view mirror	Required over passenger door, 5" x 4" approx.	
21.25	Windows & windshield	Factory tinted	
21.26	Windows and Locks	Power windows and locks	
21.27	Windshield wipers	Electric, intermittent	
21.28	Wiper blades	OEM Winter Wiper Blades	
21.29	Windshield washer	Electric, required with spray nozzles on wiper blades.	
21.30	Grab handles	Dual exterior grab handles	
21.31	Entrance steps	Dual each side, open grate / grip type with boot	
		brush mounted on driver and passenger sides	
21.32	Winter-front	Heavy-duty vinyl w/twist lock or snap type fasteners	
22.0	INSTRUMENTATION		
22.1	Oil pressure	Gauge	
22.2	Coolant temperature	Gauge	
22.3	Transmission oil temp.	Gauge	
22.4	LOP/HWT	Warning light and buzzer	
22.5	Voltmeter	Gauge	
22.6	Air reservoir pressure	Gauge with LAP warning light and buzzer	
22.7	Engine hour meter	Required, non reset able type	
00.0	TOWLLOOKS		
23.0	TOW HOOKS	Pagdily accessible front from mounted	
23.1	Location	Readily accessible, front frame mounted	
24.0	FRONT BUMPER		
24.1	Type	Front bumper full width	
	<del></del>	•	

25.0	COLOUR		
25.1	Exterior	White	
25.2	<u>Interior</u>	Blue or grey	
25.3	Frame & suspension	Primed and finished with black Imron 5000 paint	
25.4	<u>Wheels</u>	Powder coated white	
26.0	CUTAWAY VAN BODY	Y DIMENSIONS AND WEIGHTS	
26.1	Interior Cargo length- B	ulk head wall to back door approx 12 ft.	
26.2		o accommodate approx.15 ft. finished interior tyle chassis with 3 <sup>rd</sup> row seating as per specified <b>body length-</b>	
26.3	Overall height - 124 in.	maximum, <b>state-</b>	
26.4	Body width exterior - 96	in. maximum, <b>state-</b>	
26.5	Interior height – 78-80 i	nches finished height, <b>state-</b>	
26.6	Floor height – Approx. 3	36 inches from ground level.	
26.7	Unit weight including ch	nassis – state-	
27.0	INTERFACES		
27.1	by a minimum of 1/16 in	aluminium and steel are to be separated  a. thick rubber or neoprene sheet and  a with stainless steel bolts and non-	
28.0	WALL CONSTRUCTION	<u>DN</u>	
28.1	panels - min. 0.125 in. t construction - 1½ in. "Z	m, construction method to be either snap-lock hick on 12 in. centres; or frame and skin type extrusions on 12 in. centres with min. ed with aluminium rivets. State construction	
28.2	Insulation -Two (2) inch	es minimum spray foam, (R7 rating per inch.)	
28.3		-Interior walls must be lined with minimum 3/8" with white glass board (Kemlite).	
29.0	ROOF		
29.1	Construction - Smooth minimum 10 gauge alu	aluminium stressed-skin, walk-on style roof minium.	

29.2	Roof bows - Hat type on 12 in. centres.	
29.3	<u>Insulation</u> - Two (2) inches, <b>state type-</b>	
29.4	Roof lining - ¼ in. plywood covered with glass board (Kemlite) panel.	
30.0	STORAGE KICK	
30.1	Storage kick- Van roof to be cut-out as required and equipped with a sloped 'kick-over", aluminium construction with open storage area. walk-through to be full height, approx. 30" wide. Upper storage area shall be c/w a 2 inch lip.	
31.0	<u>FLOOR</u>	
31.1	Cross sills- Full width 2 in. x 2 in. x 0.125 in. hollow structural steel tubing or equivalent on 16 in. centres. <b>State material</b> -	
31.2	Long sills- Structural C channels or equivalent. State material-	
31.3	Floor material- Extruded aluminium non-skid safety floor material-	
31.4	Insulation – 3" in. of spray foam urethane insulation on underside of floor	
32.0	REAR DOORS (SEE REAR ELEVATION DRAWING)	
32.1	Rear doors- Two (2) hinged type, approx. 72" H X 30" W right hand door and 10" W left hand door, complete with safety glass, top and bottom on right hand door. Doors to open maximum distance, manufacture shall choose adequate hinge system to achieve maxim fully opened positions.	
32.2	Safety glass- Two (2) required on right hand door, min. 20" H X 14" W each.	
32.3	Hinges- Three (3) heavy-duty stainless steel hinges per door, state type-	
32.4	<u>Door Latch System</u> - Manufacture's heavy duty standard slam action type. Rod-actuated with locking exterior handle.	
32.5	<u>Door stays</u> - Designed to hold rear doors in fully open position, "Grabber" U-style (Cast Products Inc.), no substitutes.	

33.0	INTERIOR BULKHEAD	
33.1	Bulkhead- Full width, 12 gauge aluminium with sufficient soundproofing, located directly behind third passenger seat.	
33.2	Bulkhead shall be designed to permit full rearward seat travel with the seat in a comfortable reclined position. A 1" (inch) space shall be provided between the bulkhead and the seat to prevent rubbing.	
33.3	Bulkhead door - centre, swinging door with minimum two (2), 18 in. x 18 in. Lexan window located in upper and lower door. Lower window shall be located to provide driver rear visibility when bulkhead door is closed. Door shall be designed in a secure manner to prevent rattling and have a heavy duty locking system.	
34.0	PASSENGER SIDE (SEE CURBSIDE INTERIOR ELEVATION DRAWING)	
34.1	Storage seat- (3 <sup>rd</sup> ) passenger storage seat. Seat design to accommodate 1 operator to use as a passenger seat during transportation. Storage seat shall be approx. 36"L x 24"D. Seat must be CSA and UL approved.	
34.2	Work bench- 102"L x 24"D with approx. 34 in. working height. Bench top to be laminated wood, approx. 2 in. thick.	
34.3	<u>Drawers</u> - Three (3) pull-out, 24" W x 24" D x 30" H, latch able, drawers to have heavy-duty sliders to maintain min. 300 lbs capacity.	
34.4	Storage cabinet # 1- 39"Wx 24" D x 30" H c/w two (2) height adjustable shelves. Cabinet shall have swinging, latch able doors.	
34.5	Storage cabinet # 2 – 39"Wx 24" D x 30" H, c/w two (2) height adjustable shelves. To accommodate (1) Webasto Air Top 3500 12-volt diesel.	
34.6	<u>Vice</u> - 5 in. Record with swivel mounted to top, right-hand side of work bench.	
34.7	Rear heater – Webasto Air Top 3500 12-volt diesel fired heater located at or near floor level. Heater duct(s) shall be c/w round, swivel type air deflector(s). Air intake to be constructed for sufficient air flow as recommended by heater manufacture. Intake air shall be located near upper outside wall in order to keep contaminants and dirt out of the air intake	

34.8	Rear heater cover- Aluminium construction covering top and sides, removable using clamp fasteners or pull-down latches. Air intake end to be constructed for sufficient air flow as recommended by heater manufacture. Heater cover shall include a 2 inch top lip.	
34.9	Rear Heater Control- Shall be ergonomically located within driver's reach and easily serviceable. Exact mounting location to be determined at time of installation.	
34.10	Floor Mounting Ducting Locations - Mounting and ducting locations to be determined at pre-production production meeting.	
34.11	Storage cabinets and drawers to be mounted on a 4 in. riser.	
34.12	<u>Upper Workbench shelf</u> - 108" L X 12" wide, with a 2" wrap around lip, mounted 1' below ceiling to accommodate miscellaneous tools and equipment, min. 300 lbs Capacity.	
35.0	DRIVER SIDE (SEE INTERIOR ROADSIDE ELEVATION DRAWING)	
35.1	Computer Work station— 48" working height, approx. 38" W X 24" D, bottom 24" left as open area, with three (3) 6"H X 38"W X 24" D drawers with heavy duty sliders. Wall mounted LED or fluorescent work light with switch on fixture. Location behind drivers seat directly in front of bulkhead wall. Exact working height to be determined upon pre-production meeting.	
35.2	<u>Literature holder</u> - Weather Guard model 8870, located near computer station area.	
35.3	Clothing storage compartment- 72" H x 30" W x 24" D approx., aluminium construction mounted on 4" riser, with double over lapping doors and latch able lock located on driver.	
35.3.1	Shelf- full width and full depth, located 18 in. from top of locker with 1 in. front lip.	
35.3.2	<u>Clothes hooks</u> - five (5) hooks, one right and left side, three on rear side.	
35.4.3	Shelving Material- 10 gauge aluminium minimum, state-	
35.5	Cabinet (1)- Minimum 40 "W- Cabinet (1) with 2 heavy duty deep sliding Drawers to accomedate 300 lbs.	
35.6	Steamer hose storage spool – shall safely and ergonomically store 50 ft. of steam hose, hand-crank type, retractable.	

35.7	Shelving Unit- Approx. 32"W X 80"H X 24". One (1) fixed shelf and 32"H with 1" lip, and (2) adjustable shelves with a 1"lip.	
35.8	Boot holder - aluminium, mounting location to be pre-determined prior to production.	
35.9	Wall Hose Bracket- Wall Hose Bracket mount located at rear drivers Side wall. Exact location to be determined during pre-production meet.	
36.0	MISCELLANEOUS	
36.1	Rear bumper - heavy-duty full width, bolted to chassis frame, approx. 9 in. deep with grip strut step surface and recess for pintle hitch mount. Bumper to have boot brush mounted clear of operators exit and entry.	
36.2	<u>Bumper-</u> shall be bolted to chassis frame and to van body, structurally reinforced and fastened with Grade 8 bolts. Shall provide a low step height from ground level. Exact height to be discussed at a pre-production meeting.	
36.3	Mud flaps - No-name black rubber type with steel bar anti-sail brackets, installed behind rear tires.	
36.4	Combination hitch- Mounted on receiver Buyers Products BH8-2000, adjustable mounting height, secured to insert flange with Grade-8 fasteners.	
36.5	Receiver Hitch mounts- to be recessed such as to provide minimum intrusion into access area. Incorporate into bumper design	
36.6	<u>Trailer Hitch reinforcement</u> - "A" frame, bolted to chassis frame web.	
36.7	<u>Electric Brakes-</u> Electric Brake controller required for electric trailer. State make and model-	
36.8	<u>Lunnette eyes for trailer safety chains-</u> mounted under side of bumper, two (2) required,one on each side of hitch, each rated at full capacity of hitch, Buyers Products B56727 or equal.	
36.9	<u>Directional Signal</u> - One (1) ArrowStik Code 3 Inc. P/N AS-847HS C/w 8 segment ArrowStik, 47 inch length, 1156 bulbs, basic controller mounting Location to be rear facing above roofline at rear of van c/w branch guard. Exact location of in-cab controller to be determined at time of installation.	

	side. Valve key tubes to be enclosed at a 5° angle in a false wall on interior of van, complete with rear access doors. Doors must be 14" higher than top tube. Note: All tubes to be in line vertically and spaced accordingly. Refer to Rear Elevation Drawing. Dimensions approximately 8" W X 45"H.	
36.11	<u>Tubes-</u> shall provide for adequate drainage to exterior of van for cleaning purposes	
36.12	Rear access door handles- Tri-mark, stainless steel, two stage, paddle type handles.	
36.13	Roof vent- (2) Fan-Tastic, model 4000 power vents with 3 speed reversible fan, installed in roof of cargo area, switch panel actuated. See Interior Floor Plan for location.	
36.14	<u>Vertical rear exhaust</u> w/muffler guard - located on left side corner (driver side)at rear, oval type design. Exhaust tip shall be complete with 90° bend and 45° cut-off. Exhaust shall be located to provide minimal obstruction for rear access doors and lighting.	
36.15	Exhaust modifications on underside of vehicle shall be routed over rear axle.	
36.16	Hose Exit port- Hose exit port to be located right rear wall at floor level. Port must be of latch style.	
36.17	Exterior Storage- two (2) required, one (1) per side, <u>aluminium</u> construction under-body, frame mounted, approx. 6'L X 17" H X 20" D each. Driver side storage box to have a 24" divided slit partition and will require venting to outside in order to store fuel containers and oil containers. Compartment dimensions shall be designed to provide sufficient ground Clearance. Complete with compartment floor liner- Heavy Duty rubber matting. <b>State Dimensions-</b>	
36.18	2-way radio circuit-Independent 20 Amp circuit, ignition powered, wired under dash loose, labelled.	
36.19	Flare kit - three (3) triangular reflectors, CVSA approved.	
36.20	<u>Fire Extinguisher</u> - 10 pound Fire Extinguisher mounted secured and accessible to operators.	
36.21	<u>Third Seat Exterior Window</u> - 20" X 20" exterior window beside 3 <sup>rd</sup> passenger seat. Window to be vented type.	
36.22	Wall Hooks- Twelve (12) heavy-duty wall hooks, locations to be determined during pre-production meet.	
36.23	Facility Entrance Dimensions- Completed vehicle must clear shop with widt	:h

	of the doors of 117" W X 124" H. It is the responsibility of the Contractor facilitate the completed design fits the shop doors at the Water & Waste Department located at 552 Plinquet Street Winnipeg, Manitoba.	to
37.0	INTERIOR LIGHTING LAYOUT	
37.1	Interior lights- Four (4) Groté 61511, actuated through switch panel	
37.2	<u>Light Mounting Locations</u> - Five (5) mounted above centre isle, evenly spaced, one (1) located on driver's side ceiling near workbench. All interior lights shall actuate through one (1) switch and door switches. <b>GENERALLY SHOWN ON INTERIOR FLOOR PLAN DRAWING.</b>	
37.3	Interior Cab Dome Lights- Two (2) OEM style overhead lights, one (1) roof mounted driver side, one (1) roof mounted passenger side. Lights to be actuated through OEM dash mounted switch and door switches.	
37.4	Map Light- Passenger side mounted, Hella 87141. Exact location to be determined at time of installation.	
38.0	ELECTRICAL & LIGHTING	
38.1	All vehicle lighting shall conform to C.M.V.S.S. and Manitoba Highway Traffic Act requirements.	
38.2	All body supplier installed wiring shall be numbered, colour coded, loomed, properly secured and protected from damage.	
38.3	All electrical connectors shall be <u>crimped and soldered</u> , then sealed using heat shrink tubing.	
38.4	All joining of wires shall be <u>soldered</u> and sealed using heat shrink tubing (crimp on electrical connectors for joining wires are not acceptable).	_
38.5	All holes required for routing wiring shall be drilled (not punched), grommetted and sealed as required.	
38.6	Wiring access panel- Wiring for interior lights, switch panel wiring, outlets, etc., shall be accessible from an access panel running along the inside corner of the ceiling.	
39.0	SUPPLIER INSTALLED LIGHTING SHALL BE LED TRUCK LITE (EXCEPT WHERE OTHERWISE NOTED) AND SHALL INCLUDE THE FOLLOWING:	
39.1	Combination Stop, turn and tail lights – P/N 44302R, one (1) per side with P/N 40700 mounting grommets, flush or recessed mounted.	

39.2		nounted stop, turn and tail lamps - P/N 44302R, one (1) per side with 1700 mounting grommets, flush or recessed mounted.		
39.3	Turn si	gnal flash rate- 70-90 flashes per minute.		
39.4	Back-u	up lights- P/N 44206C, one (1) per side with 40700 mounting nets.		
39.5		Light Cluster- Three (3) only P/N 10250R with P/N 10700 ng grommets.		
39.6	Cleara gromm	nce Lights- P/N 10250r and 10250Y with P/N 10700 mounting nets.		
39.7	Licens	e plate lamp – P/N 15040, complete with license plate bracket		
39.8		g harnesses – Truck-Lite 50 Series Harness System, properly and secured.		
39.9	fittings	on box – P/N 50400, complete with necessary compression, required for all vehicle lighting harness connections, d inside rear of truck frame.		
39.10		g-in connectors shall be coated with Truck-Lite NYK und prior to assembly.		
39.11		up alarm – STAR 62-097, 97 dB(A) rating, installed at rear of y, located to be protected from damage.		
39.12	mounte	Vork lights- two (2) utility lamps, Truck-Lite 80394, ed above Rear doors. Lights shall be wired through neutral switch, switch Panel actuated.		
39.13	Valve key storage compartment lights- located top inside of doors, one (1) per compartment, Truck-Lite 40244 with rubber grommets. actuated through "rear work lights" switch on switch panel.			
39.14	Warning light system - six (6) Truck-Lite 92690Y lights, amber lens, switch Panel actuated.			
39.15	Warnir	ng Light mounting locations:		
	i)	Front - two (2) top corner mounted.		
	ii)	Sides - one (1) per side, top-centre mounted.		
	iii)	Rear - two (2) top corner mounted.		
39.16	Lights	shall be sequentially wired in alternating flash pattern		
39.17		nounted scene lights- Four (4) Whelen 90E000ZR c/w trim ring, and near roofline, one (1) per side, mounted approx. 4 inches to		

	the rear of the warning lights, switch panel actuated on two separate switches.	
39.18	Inverter- Xantrex RS 2000, powered from auxiliary battery, switch panel actuated, mounted above driver in storage kick area.	
39.19	Electrical Outlets- Five (5) 120 Volt duplex outlets required, GFI, CSA approved. Two (2) located over workbench, one (1) located at rear drivers side, one in computer stations to operate computer, one (1) to be located van body exterior, locations to be determined at time of production.	
39.20	<u>Trailer connector</u> - 6-pole, Dominion Auto 76-4009, wired as per Detailed Specifications 06010 installed in hitch plate.	
39.21	Continuous duty solenoid - Cole Hersee part # 24059 or 24016, controlled by "ACC" & "RUN" on ignition switch.	
39.22	Switch panel - wired through ignition. Required for fast idle, interior fans, roof vent, rear work-lights, warning lights, side mounted scene lights, interior lights, inverter, and two (2) additional blank space. switch panel shall be equipped with indicator lights and back lighting, Wired Rite Systems Inc.or equal. State make and model being bid.	
39.23	Mounting location - directly above windshield, driver's side.	
40.0	INSTALLATION	
40.1	Upon request by the Contract Administrator, Bidders shall supply a final diagram and description showing the body manufacturers recommended body to chassis mount. Diagrams shall be supplied within twenty (20) Calendar days upon request.	
40.2	Mounting brackets shall be bolted to chassis frame using Grade-8 fasteners.	
40.3	Mounting of the body shall be in accordance with the chassis manufacture's guidelines for body mounting, including, but not limited to, guidelines for tire and suspension clearance and fuel filler installation.	
40.4	Tire Clearance- Bumper pad clearance plus 3" minimum	
40.5	Operator Entry- The van body shall be mounted as low as practicable and shall incorporate wheel wells.	
40.6	All holes for latches, outlets, etc. shall be neatly cut and de-burred	
40.7	All edges and corners shall be rounded to prevent accidental injury	

The Contractor shall warrant <u>all body equipment</u> and all parts therof, against any defects in workmanship, construction and materials, and agrees to repair or replace without cost to the City any article that has become defective and not proven to have been caused by negligence

Bid Submission

The City of Winnipeg

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		part of the user within one (1) year from the date the equipment to service by the City of Winnipeg.	
43.1.1	is repai (Clause	one (1) year warranty period shall be provided for any article that red or replaced under the terms of the "repeat failures" clause 42.0 <u>Performance Reliability</u> ). The new warranty period shall be reform the date of acceptance of the repaired or replaced article.	
43.1.2	all comp and ma article the negliger bumper	ntractor shall warrant <u>all chassis equipment</u> and conents thereof, against any defects in workmanship, construction terials, and agrees to repair or replace without cost to the City any nat has become defective and not proven to have been caused by nce on the part of the user within <u>three (3) years or 60,000 km</u> to bumper (lights excluded) from the date the equipment is put vice by the City of Winnipeg.	
43.2	The City of Winnipeg may choose to purchase extended warranty on the Chassis upon initial purchase. (Note: these figures do impact the Form B: Prices nor is evaluated. Please state the prices for the following Extended Warranty:		
	i)	<u>Cat ESC plus</u> (Covers all the engine except turbo, water pump, injectors) 84 months (7) years- 150,000 km's.	State- \$
	ii)	Cat Maintenance Component Products ( covers extra turbo, w pump, injectors) 84 months (7) years-150,000 km's.	rater State-\$
	iii)	<u>Towing Coverage</u> for 60 months (5) years 161,000 km's.	State-\$
	iv)	Allison transmission warranty 5 years, unlimited km's.	State-\$
	v)	Axle warranty 5 years, unlimited km's.	State-\$
44.0	MANU	<u>ALS</u>	
44.1	The following manuals shall be supplied with the unit when delivered. The manuals shall be in English and shall cover the complete vehicle including the engine and all attachments:		
44.1.1		or's manual – one (1) per unit. Operator's manuals are required & chassis, steamer, inverter and heater.	
44.1.2	schedu	epair and service manuals, including preventative maintenance les for the life of unit – two (2) total, (CD preferred). (2) parts, nd service manuals are required for cab & chassis and rear	

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	heater.	
44.2	<u>Data Collection Sheets</u> - Data Collection Sheets to be completely	
	filled out. See clause D.6 (PMDCS)	
45.0	PRODUCTION DRAWINGS	
45.1	Drawings – the Contractor shall submit for approval, detailed production drawings of the interior and exterior of the van body prior to construction upon request of the Contract Administrator.	
46.0	DELIVERY DATE	
46.1	The equipment shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid to the City of Winnipeg, Fleet Management Agency Office, 185 Techumseh Street, Winnipeg, Manitoba <u>within</u> <u>fifty-two (52) calendar weeks</u> from the date of official notification of award of Contract. The Contractor shall contact the Contract Administrator prior to delivery of the equipment.	