

FORM A: BID
(See B7)

1. Contract Title SUPPLY & INSTALLATION OF SERVICE BODIES AND CRANES

2. Bidder

Name of Bidder

Street

City

Province

Postal Code

Facsimile Number

(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 under the above name.

3. Contact Person

The Bidder hereby authorizes the following contact person to represent the Bidder for purposes of the Bid.

Contact Person

Title

Telephone Number

Facsimile Number

E-mail address

4. Definitions

All capitalized terms used in the Contract shall have the meanings ascribed to them in the General Conditions and D3.

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
Of the Work

The Bidder agrees that no Work shall commence until he is in receipt of a notice of award from the Award Authority 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 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:

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

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 B8)

SUPPLY & INSTALLATION OF SERVICE BODIES AND CRANES

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1	Supply & Installation of a Service Body and Crane	08121	Each	6	\$ _____	\$ _____
TOTAL BID PRICE (GST and MRST extra) (in figures) \$ _____						
(in words) _____						

Name of Bidder

FORM N: DETAILED SPECIFICATIONS 08121

SERVICE BODY AND CRANE (Traffic Services)

1.0 SCOPE

- 1.1 These specifications describe the supply and installation of a fibreglass service body with a steel deck and an electric crane, mounted on a City owned cab & chassis vehicle. See 12.0 Installation for chassis description.
- 1.2 The unit shall be furnished complete and ready for use. All parts not specifically mentioned, but which are required to complete and place the unit into successful operation, shall be furnished as though specifically mentioned in these specifications. The complete unit and all parts thereof, shall conform in strength and quality of material and workmanship to the best standards and engineering practice of the industry.
- 1.3 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 unit.
- 1.4 The ratings specified herein merely state the minimum values acceptable to the City. There is no intent of implying that these values are sufficient for the design of the unit being bid.

2.0 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 All welding shall conform to the CSA/CWB Standards W47.1-03 and W59-03.
- 2.3 The completed unit and all its components shall comply with all C.M.V.S.S. and Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker.

3.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 3.1 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders shall state "yes" for compliance or state deviation, or give a reply where requested to do so.** Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.
- 3.2 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**

4.0 NATIONAL SAFETY MARK

- 4.1 State NSM number. _____

5.0 PERFORMANCE

- 5.1 The service body and crane shall be capable of consistent top performance for loading and hauling varying payloads during the summer and winter environments which are normal to the City of Winnipeg. _____

6.0 FIBREGLASS SERVICE BODY

6.1 Construction – service body sidepacks, compartments and doors shall be constructed of high impact resistant fibreglass. _____

6.2 Compartment layout, general – one (1) front vertical compartment, one (1) horizontal compartment over the wheelwell and one (1) rear vertical compartment, each side of body. Left (driver's) side of body to have one (1) rear hot stick door. _____

6.3 For the purpose of these specifications:

L – Length along or parallel to chassis longitudinal axis.

H – Height, vertical.

D – Depth on horizontal plane across vehicle.

6.4 General dimensions:

6.4.1 Body height – nominal 40 in. _____

6.4.2 Body length – nominal 132 in. _____

6.4.3 Body width – nominal 90 in. _____

6.5 Compartment layout, left (street) side:

6.5.1 Front vertical compartment – 60"L x 40"H x 18"D approx., with overlapping barn style doors, no centre divider panel. _____

6.5.2 Horizontal compartment – 46"L x 20"H x 18"D approx. _____

6.5.3 Rear vertical compartment – 26"L x 40"H x 18"D approx., with 20 in. H rear hot stick door providing access to street pole storage tubes. _____

6.5.4 Street pole storage tubes – eight (8), 3 in. diameter PVC tubes, 114 in. L with a downward slope towards front. Tube ends fitted with stops to prevent poles from sliding through (both forwards and rearward). The tubes shall be secured in place and designed to hold 120 in. L steel pipes with a total combined weight of approximately 200 lbs. A heavy duty, rubber covered plate shall be installed at the tube ends to prevent the steel pipes from damaging the service body. _____

6.6 Compartment layout, right (curb) side:

6.6.1 Front vertical compartment – 60"L x 40"H x 18"D approx., with overlapping barn style doors with no centre divider panel. Compartment shall have one (1) 38 in. L approx. full depth, slide-out shelf with heavy duty sliders and shall allow the shelf to slide-out of the body in its entirety with a 36" x 30" sign in place. Shelf divided longitudinally into four (4) equally sized sections with 10 in. H divider panels. Handle required at front of shelf. _____

6.6.2 Horizontal compartment – 46"L x 20"H x 18"D approx., with six (6) wrench hooks on each side wall. _____

- 6.6.3 Rear vertical compartment – 26"L x 40"H x 18"D approx. with two (2) hooks on each sidewall and one (1) shovel hook centred on back wall. Compartment lined with heavy duty rubber on three (3) sides. _____
- 6.7 Compartment floor reinforcement – front drivers side compartment and both rear vertical compartments shall be lined with a $\frac{3}{16}$ in. steel plate covered with rubber matting. _____
- 6.8 Compartment floor lining – both horizontal compartments and front passenger side compartment shall be lined with Dri-Deck material or equal. _____
- 6.9 Drain holes – all body compartments to include a $\frac{1}{2}$ in. drain hole. _____
- 6.10 Door latches – flush mounted with locks for all compartment doors. All locks shall be keyed alike. _____
- 6.11 Compartment door handles – Tri-Mark or equivalent, chrome plated or stainless steel paddle style handles, except barn door handles which shall be chrome plated or stainless steel D-ring type. _____
- 6.12 Door hinges and latches – chromed or stainless steel with adjustable striker plates. _____
- 6.13 All compartment door openings shall be sealed using automotive, bulb type, rubber gaskets. _____
- 6.14 Door hold-open devices – over-centre door holders on front and rear compartments, detachable cables on horizontal compartments. _____
- 6.15 Rubber bumpers – installed on the body below the horizontal compartments to prevent contact between the compartment door and the body, two (2) bumpers per door. _____
- 6.16 Wheelwell area shall incorporate a fibreglass or rubber fender flare. _____
- 6.17 Drip moulding – installed along the full length of the body above the door openings. _____
- 6.18 Mudflaps – no name, fabric reinforced, black rubber mudflaps installed fore and aft of rear tires, with $\frac{1}{2}$ in. diameter steel bar antisail brackets. _____
- 6.19 Aluminum grip strut installed to top of side packs, full length x full width, with bolt holes sealed as required. _____
- 7.0 MAIN DECK ASSEMBLY**
- 7.1 Deck – $\frac{3}{16}$ in. checkerplate steel with an under deck “possum belly” storage compartment. _____
- 7.1.1 The deck shall have a rain lip or drip moulding to prevent water from entering into the possum belly storage compartment. _____
- 7.2 Deck width – 54 in. approx. between fibreglass side packs. _____
- 7.3 Possum belly floor – $\frac{1}{8}$ in. steel plate. _____

- 7.4 Possum belly tailgate – $\frac{3}{16}$ in. aluminum checkerplate construction, fold-down type with heavy duty hinges, chrome or stainless steel paddle style door handle and latch. Grease fitting required on each hinge. _____
- 7.5 Possum belly compartments – three (3) with $\frac{1}{8}$ in. thick steel dividers. _____
Section dimensions from right to left as follows:
- 7.5.1 Section #1 – 106"L x 7"H x 19"W. _____
- 7.5.2 Section #2 – 73"L x 7"H x 16"W. _____
- 7.5.3 Section #3 – 122"L x 7"H x remaining width. _____
- Note: Widths are measured between wheelwells.
- 7.5.4 Section #2 shall have a $\frac{3}{16}$ in. steel plate, dimensions 16"W x 4"H welded near rear of compartment space to prevent pipes/rods from rolling from side to side. The plate shall have three, $\frac{1}{2}$ circles cut into the top of the plate where pipes/rods will rest. $\frac{1}{2}$ -circle cut-outs to be approx. 3 in. diameter. _____
- 7.5.5 Drain holes – $\frac{3}{4}$ in. drain holes required at front of each possum belly compartment. _____
- 7.6 Deck sides – $\frac{3}{16}$ in. aluminum checkerplate, extended full height up sides of fibreglass side packs. _____
- 7.7 Front headboard – aluminum construction, approx. 27 in tall. _____
- 7.8 Kickplate, rear of body – $\frac{3}{16}$ in. aluminum checkerplate, full width below deck floor level. _____
- 7.9 Kickplate, front – $\frac{3}{16}$ in. aluminum checkerplate to protect lower front area of body protruding past chassis cab, each side, min. 8 in. kickplate height. _____
- 7.10 Sign storage box – steel construction, 34"L x 10"H x 18"W approx., no top portion required, mounted at right-front passenger side, inside of service body in deck area. Three (3) $\frac{3}{4}$ in. equally spaced drain holes required. _____
- 7.11 Tailboard – 6 in. high black polyboard, mounted towards the front (i.e., towards cab) of the pipe vice with adequate cut-away for pipe to extend past body. _____
- 7.12 Deck sides and kickplates caulked along edges using elastomeric sealant. _____
- 8.0 CRANE**
- 8.1 Type – electric, minimum 6000 ft-lbf moment rating. _____
- 8.1.1 State make and model being bid. _____
- 8.2 Lifting capacity – 1000 lbs. minimum. _____

- 8.3 Boom – manually extendable from 36" to 84" approx. _____
- 8.4 Rotation – manual, 340° approx. with band break. Roller bearing rotation with rotation point located at top of pedestal. _____
- 8.5 Winch – 12-Volt electric with approx. 25 ft. of $\frac{3}{16}$ in. galvanized aircraft cable with safety hook and down haul weight (snatch block not acceptable). _____
- 8.6 Pedestal height – 54 in. approx. _____
- 8.7 Remote pendant control with 10 ft. detachable control cable. _____
- 8.7.1 Pendant control storage rack located on or near pedestal. _____
- 8.8 Mounting location – front right corner of deck. _____
- 8.8.1 Deck shall be reinforced as required. _____
- 8.9 Crane shall be wired through ignition with a 40 Amp breaker with solenoid. _____
- 9.0 REAR BUMPER AND HITCH**
- 9.1 Rear bumper – heavy duty step type bumper, tubular steel construction, tapered at outer ends, 12 in. steel grip strut surface and a recess for a pintle hitch mount, 16 in. step height from ground approx. _____
- 9.2 Auxiliary step – aluminum grip strut, 7"D x full width of deck, located equidistant between bumper and deck level. _____
- 9.3 Dock bumpers – rear mounted, one (1) on each side of unit, vertically mounted to a heavy duty tubular steel frame welded to the rear of unit. Exact mounting location to be determined at time of installation. _____
- 9.4 Combination hitch – Premier 150 w/2 in. ball. Exact mounting height to be determined at time of installation. _____
- 9.4.1 Hitch reinforcement – "A" frame hitch reinforcement, 3" x 3" x $\frac{1}{4}$ " angle iron, welded to back of bumper and bolted to chassis frame web or equivalent Class IV hitch reinforcement. _____
- 9.5 Lunette eyes for trailer safety chains – two (2) Buyers Products B56731. _____
- 10.0 ELECTRICAL AND LIGHTING**
- 10.1 All lighting to conform to C.M.V.S.S. and Manitoba Highway Traffic Act. _____
- 10.2 Supplier installed lighting and lighting equipment shall be Truck-Lite (except where otherwise noted) and shall include the following components:
- 10.2.1 Combination turn/stop and taillights – P/N 44302R, flush mounted, one (1) per side with 40700 mounting grommets, flash rate 70-90 fpm, mounted in rear of body at maximum practicable height. _____

- 10.2.2 Back-up lights – P/N 44206C, flush mounted in rear of body, one (1) per side with 40700 mounting grommets. _____
- 10.2.3 Light cluster – three (3) only P/N 10250R with P/N 10700 mounting grommets, or 3-lamp ID assembly P/N 33740R, located to be protected from damage below auxiliary step. _____
- 10.2.4 Clearance lamps – P/N 10250R and 10250Y with P/N 10700 mounting Grommets, *or* 33250R and 33250Y with P/N 33700 Grommets. _____
- 10.3 No clearance light shall protrude beyond the service body. _____
- 10.4 Licence plate lamp – P/N 15040, complete with licence plate bracket. _____
- 10.5 Harnesses – Truck-Lite 50 Series Harness system, properly routed and secured. _____
- 10.5.1 All harnesses shall be internally grounded, no exceptions. _____
- 10.6 Back-up alarm – STAR model 99901, mounted between frame rails at rear of truck, located to be protected from damage and road spray. _____
- 10.7 Junction box – P/N 50400, complete with necessary compression fittings, required for all vehicle lighting harness connections, located inside rear of truck frame, readily accessible for servicing. _____
- 10.8 All plug-in connectors shall be coated with Truck-Lite NYK compound prior to assembly. _____
- 10.9 Compartment lights – LED continuous “rope” style lighting in all service body compartments, properly secured to prevent damage, wired through ignition and through chassis manufacturer’s OEM dash mounted switch labelled “Bin Lights”. _____
- 10.10 Mini light bars – two (2) Whelen R2LPPA light bars, front-left and front-right side mounted on top of railing (see 13.2). _____
- 10.11 Strobe lights – two (2) Whelen P/N 5GA00FAR lights, located outside of 3-light cluster, rear facing in rear kickplate. Exact location to be determined at time of installation. _____
- 10.11.1 Mini light bar and strobe lights shall be wired through the ignition, wired through a single OEM dash mounted switch, labelled “Beacon”. _____
- 10.12 Sequential merge flashers / sign boards – shall be supplied by the City, and installed by the Contractor. Dimensions of the merge flasher enclosures are approx. 42"H x 23"W x 2"D, mounted to top of rear side packs, one per side. _____
- 10.13 Work Lights – four (4) Truck-Lite P/N 80395, two (2) rear facing one on each side of front railing, two (2) front facing one on each side of sign board brackets. Work lights to be wired through the ignition, wired through a single OEM dash mounted switch, labelled “Work Lights”. Exact mounting locations to be determined at time of installation. _____
- 10.13 Trailer connector – factory Ford OEM trailer plug shall be mounted and installed in the rear hitch plate. _____
- 10.14 Inverter – CSA approved, 110 Volt, 2000 Watts minimum, mounted in the _____

upper right corner inside the passenger side front compartment. Exact location to be determined at time of installation.

10.14.1 State make and model of inverter being bid.

10.14.2 Inverter shall be wired through the ignition with a 250 Amp fuse and solenoid.

10.14.3 All exposed inverter terminals shall be coated with a dielectric grease and completely covered with shrink wrap tubing or rubber fittings.

10.15 All wiring for warning lights and back-up alarm shall be colour coded, loomed and properly secured.

10.15.1 All electrical connectors shall be crimped and soldered, then sealed using heat shrink tubing.

10.15.2 All joining of wires shall be soldered and sealed using heat shrink tubing or approved OEM weathertight connections (crimp on electrical connectors for joining wires are not acceptable).

10.15.3 Any holes required to run wires through shall be drilled (not punched), grommeted and sealed as required.

11.0 WELDING

11.1 All welds shall be continuous welds.

11.2 All welding performed shall conform to CSA Standard W47.1-03 and W59-03.

Note: All welds are subject to inspection by a City of Winnipeg Qualified Inspector.

12.0 INSTALLATION

12.1 The Contractor shall install the body and crane in accordance with the manufacturer's specifications, on a chassis supplied by the City of Winnipeg.

12.2 A general description of the cab & chassis is as follows:

2009 Ford F-450

- 16,500 lbs. GVWR
- Regular Cab
- 84 in. CA
- 2WD
- 6.4 L Diesel engine
- TorqShift® 5-Spd. Automatic
- Horizontal discharge exhaust

12.2.1 The chassis will be available for pick-up on or before January 15, 2009. The Contractor is responsible for pick-up and delivery of the unit as stated in Section 15.0 below.

12.3 Any holes required in the chassis frame web must be drilled and reamed to fit bolts.

- 12.3.1 Drilling on chassis frame flanges is not permitted. _____
- 12.3.2 Welding on the chassis frame is not permitted. _____
- 12.4 Tire clearance – min. 4 in. with rear springs fully loaded. _____
- 12.5 Mounting of the body shall be in accordance with the chassis manufacturer’s guidelines for body mounting, including but not limited to, guidelines for tire and suspension clearance and fuel filler installation. _____
- 12.6 Clearance between service body and back of truck cab shall be 3 in. approx. _____
- 12.7 The fibreglass side packs shall be mounted to the steel deck using cadmium plated carriage bolts and fender washers. Bearing plates shall be used in high stress areas. _____
- 12.8 Upon request of the Contract Administrator, bidders shall supply a diagram and description showing the body manufacturer’s recommended body and deck to chassis mount. Bidders shall supply the diagram within three (3) calendar days of the request of the Contract Administrator. _____
- 12.9 Mounting brackets shall be bolted to chassis frame using Grade-8 fasteners. _____
- 12.10 The crane shall be mounted to the steel deck using Grade-8 bolts and in accordance with the crane manufacturer’s recommendations. _____
- 12.11 Departure angle of completed unit – state angle. _____
- 13.0 MISCELLANEOUS**
- 13.1 Grab handles – chrome finish, located at rear of body, each side, for ergonomic access to deck. _____
- 13.2 Railing – 18 in. H, 1 in. square steel tubing construction, designed to wrap around the front, sides and partial rear of the body. _____
- 13.2.1 Curb side railing to have a 4 ft. swing-up, removable section with the pivot point located 7 ft. from the front of the body. _____
- 13.2.2 Curb side railing to include one (1) horizontal angle iron support located immediately above the horizontal compartment (for use as a hammering strip for bending metal banding material). _____
- 13.2.3 Curb and street side railing to incorporate a platform, 18"D x 20"L, 18 in. above top of service body at rear corners. Platforms shall have an aluminum grip strut surface and a railing 18 in. above platform along two (2) sides. _____
- 13.2.4 Expanded metal between headboard and front railing, width equal to that of headboard. _____
- 13.2.5 Railing shall incorporate a mounting bracket or frame suitable for mounting a pair of sequential merge flashers at the rear of the body _____

above the top of the compartment, one merge flasher each side.

13.3 Pipe vice – Ridgid BC 410, $\frac{1}{14}$ " - 4", mounted on the driver's side rear corner of the deck. Vice to be oriented so that an inserted pipe runs parallel to the vehicle length. Exact location to be determined at time of installation.

13.4 Barricade storage brackets – four (4) brackets required, two per side, bolted to side packs. Brackets shall consist of a 12 in. L $2\frac{1}{4}$ " x $2\frac{1}{4}$ " square steel tube welded to a 3"W x 5"H x $\frac{3}{16}$ " steel bearing plate bolted to the side packs on the interior of the deck area. A height adjustable 16 in. L 2" x 2" steel tube shall insert into the larger steel tubing, height adjustable with a bolt system drilled through both tubes. Exact locations to be determined at time of installation.

13.5 Interfaces – any contact between aluminum and steel shall be separated by a minimum $\frac{1}{16}$ in. rubber or neoprene sheet to prevent galvanic corrosion. Bolts between aluminum and steel shall be stainless steel.

14.0 COLOUR AND FINISH

14.1 Fibreglass service body gel coat colour impregnated to match chassis cab colour.

14.2 All steel components including kickplates, rear bumper, hitchplate, steel brackets, railings, etc. shall be sandblasted, properly cleaned, primed and finished with the Endura paint process as follows:

14.2.1 Primer – Endura EP521 Intermix Epoxy Primer.

14.2.2 Paint – 3-5 mils of Endura EX-2C Topcoat, black.

14.3 Deck – complete deck surface to be coated with black Line-X heavy-duty non-slip coating (no substitutes), 120 mil thickness minimum.

14.4 Aluminum components – unfinished.

15.0 PICK-UP AND DELIVERY

15.1 Pick-up – the Contractor shall be responsible for picking-up the cab & chassis vehicle from the City upon commencement of the Contract. The vehicle will be available for pick-up at the Winnipeg Fleet Management Agency, 185 Tecumseh St., Winnipeg, Manitoba. Pick-up times will be between 8:00 am and 3:00 pm on any business day. The Contractor shall be responsible for any related fuel and Insurance costs to and from their facility.

Note: The vehicles will be fully fuelled at the time of pick-up by the Contractor.

15.2 Delivery – the unit shall be serviced, ready for operation, fully fuelled and delivered F.O.B. with the freight prepaid to the Winnipeg Fleet Management Agency, 185 Tecumseh Street, Winnipeg, Manitoba within **twenty-six (26) calendar weeks** from the date of official notification of award of Contract. The Contractor shall contact the Contract Administrator prior to delivery of the equipment. Equipment shall be delivered within 8:00 am and 3:00 pm on Business Days.

15.3 A pre-delivery inspection shall be performed by the Contractor on all equipment.

16.0 PERFORMANCE RELIABILITY

16.1 The responsibility for the design of the complete unit, its performance and reliability shall rest upon the Contractor.

16.2 The term "*repeat failures*" as used herein is defined to mean that the same component, assembly, or sub-assembly develops repeated defects, breakdowns and/or malfunctions rendering the unit inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, assembly, or sub-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 schedules.

16.3 Where the unit develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

17.0 WARRANTY

17.1 The Contractor shall warrant **all equipment** and all parts thereof, against any defects of 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 on the part of the user within **two (2) years** from the date the equipment is put into service by the City of Winnipeg.
