

FORM N: DETAILED SPECIFICATIONS 22027

SERVICE BODIES

1. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 1.1 All items in these specifications should be answered indicating compliance or non-compliance.
- 1.2 **Bidder shall state “yes” for compliance or state “deviation”**, or give a reply where requested to do so. Deviations and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specifications is used, the City will also consider deviations and/or equivalents.
- 1.3 Lengthy explanations of deviations may be included in a separate document and must reference the appropriate Detailed Specification.
- 1.4 Each Proponent is required to fill in every blank. Failure to do so may be used as a basis for rejection of bid.
- 1.5 It will be the responsibility of the Proponent to inform the City of any errors or omissions in these Detailed Specifications, for under this Contract, the Contractor shall be held responsible to ensure that the manufacturer will be responsible for the design, performance, reliability and satisfactory operational function of the unit.

2. DESCRIPTION OF EQUIPMENT

- 2.1 These specifications describe **Service Bodies** and other equipment and features as specified herein.
- 2.2 The **Service Bodies** shall be a new **2022** model year or newer.
- 2.3 The **Service Bodies** 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 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.
- 2.4 The ratings specified herein merely state the minimum values acceptable to the City, not implying that those values are sufficient for the design of the particular equipment being bid.

3. OTHER SPECIFICATIONS AND STANDARDS

- 3.1 All applicable SAE Standards form an integral part of the vehicle specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 3.2 Where applicable, the **Service Bodies** shall comply with the applicable regulations:

Transport Canada, National Safety Mark, NSM:

<http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm>

Manitoba Safety and Health Regulation, Parts 12, 16, 22:

https://www.gov.mb.ca/labour/safety/pdf/1_2016_wsh_ar_oc.pdf

Canadian Motor Vehicle Safety Standards C.M.V.S.S.

[Motor Vehicle Safety Regulations \(justice.gc.ca\)](http://www.justice.gc.ca)

Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker.

<http://web2.gov.mb.ca/laws/regs/index.php?act=h60>

Canadian Standards Association, CSA:

<http://www.csagroup.org/>

Under Writers of Canada, U/L:

[Underwriters Laboratories of Canada \(ULC\)](http://www.ulc.ca)

Society of Automotive Engineers, SAE:

<http://www.sae.org/>

City of Winnipeg Lighting Visibility Standard:

<http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>

Manitoba Building Code:

https://web2.gov.mb.ca/laws/regs/current/_pdf-regs.php?reg=31/2011

3.3 Where applicable, the completed unit shall include a Manitoba Government Inspection with Safety Sticker.

3.4 Where applicable, the manufacturer/installer shall affix their National Safety Mark (NSM) certification sticker on each unit.

State NSM number: _____

4. FUEL

4.1 Where applicable, the equipment shall be fully fuelled upon delivery (no exceptions).

5. REFERENCES

5.1 Provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

6. MAKE & MODEL

6.1 State year, make and model being bid:

Model Year: _____

Make: _____

Model: _____

7. PERFORMANCE RELIABILITY

7.1 The responsibility for the design of the **Service Bodies** 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 Bodies** 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. SERVICE FACILITY

- 8.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. 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

9. QUALIFICATIONS OF MANUFACTURER & CONTRACTOR

- 9.1 The manufacturer of the Service Bodies shall have five (5) years continuous experience manufacturing Service Bodies.
- 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 Service Bodies of the type being offered.

10. SPECIFICATIONS

10.1 The Service Body shall be capable of consistent top performance for loading and hauling equipment and supplies of varying payloads year-round in conditions normal to the City of Winnipeg _____

Make and Model

10.2 Make **State:** make: _____

10.3 Model **State:** model: _____

10.4 Model Year **State:** model year: _____

Body Weight

10.5 Body Weight **State:** estimated weight of body: _____

Weigh Scale Ticket

10.6 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, all attachments and full of fuel.

Installation

10.7 The Contractor shall install the bodies on the following City owned chassis cab vehicles: _____

Traffic Services:

**2022 Ford F-550
Five (5) Required**

- 17,500 lbs. GVWR
- 7.3 L V8 Gasoline Engine
- 2WD
- Regular Cab
- 84 in. CA
- TorqShift® 6-Spd. Automatic
- Horizontal discharge exhaust

WFMA Vehicle Unit Number(s):

- 2152380
- 2152381
- 2152382
- 2152383
- 2152384

10.8 Availability The cab chassis will be available during the third quarter of 2022 _____

- 10.9 Pick-Up _____
- The Contractor shall be responsible for picking-up the chassis cab vehicles from the City upon commencement of the Contract
 - The vehicles 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 2:00 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

Fibreglass Service Body

- 10.10 Material _____
- High impact resistant fiberglass
- service body side packs
 - compartments
 - doors

- 10.11 Compartment Layout _____
- Each side of vehicle to have:
- one (1) front vertical compartment
 - one (1) horizontal compartment over the wheel well
 - one (1) rear vertical compartment
- Rear of Vehicle:
- Left (driver's) side of body to have one (1) rear hot stick door

General Dimensions

- 10.12 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

Note: Unless otherwise specified, all dimensions are in inches

- 10.13 Body Height _____
Approximately 40 in.
State: body height: _____
- 10.14 Body Length _____
Approximately 132 in.
State: body length: _____
- 10.15 Body Width _____
Approximately 90 in.
State: body width: _____

Compartment Layout, Left (Street) Side

10.16 Front Vertical Compartment

- Approximately 60L x 40H x 18D
- over-lapping barn style doors
- no centre divider panel



10.17 Horizontal Compartment

Approximately 46L x 20H x 18D

10.18 Rear Vertical Compartment

- Approximately 26L x 40H x 18D
- 13 in. H rear hot stick door providing access to street pole storage tubes

10.19 Street Pole Storage Tubes

The service body shall accommodate:

- Qty nine (9)
- 3 in. diameter x 114 in. Length PVC tubes
- 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





Street Pole Storage Door -
 Closed View



Street Pole Storage Door –
 Side View



Street Pole Storage Door
 - Open View

Compartment Layout, Right (Curb) Side

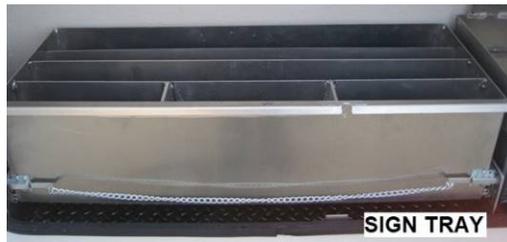
10.20 Front Vertical Compartment

- Approximately 60L x 40H x 18D
- over-lapping barn style doors
- No centre divider panel



10.21 Sign Tray
 Front Vertical Compartment

- One (1) 38 in. L approx. full depth, slide-out shelf
- 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



10.22 Horizontal Compartment

- Approximately 46L x 20H x 18D

10.23 Fastener Tray
Horizontal Compartment

- Approximately 30L x 3H x 15D
- 1st compartment approximately 10L x 15D
- Remaining compartments approximately 4L x 7-1/2D



10.24 Wrench Hooks
Horizontal Compartment

- Six (6) wrench hooks on each side wall



10.25 Rear Vertical Compartment

- Approximately 26L x 40H x 18D
- Compartment lined with heavy duty rubber on three (3) sides

10.26 Hooks
Rear Vertical Compartment

- Two (2) hooks on each sidewall
- One (1) shovel hook centred on back wall



Standards

10.27 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

10.28 Compartment Floor Lining

Both horizontal compartments and front passenger side compartment shall be lined with Dri-Dek material

10.29 Drain Holes

All body compartments to include a $\frac{1}{2}$ in. drain hole complete with plug

10.30	Door Latches	<ul style="list-style-type: none"> • Flush mounted with locks for all compartment doors • All locks shall be keyed alike 	_____
10.31	Compartment Door Handles	<ul style="list-style-type: none"> • Chrome plated or stainless-steel paddle style handles • Barn door handles which shall be chrome plated or stainless-steel D-ring type 	_____
10.32	Door Hinges and Latches	Chromed or stainless steel with adjustable striker plates	_____
10.33	Compartment Door Openings	Sealed using automotive type bulb gasket door seal	_____
10.34	Door Hold-Open Devices	<ul style="list-style-type: none"> • Over-centre door holders on front and rear compartments • Detachable cables on horizontal compartments 	_____
10.35	Rubber Bumpers	<ul style="list-style-type: none"> • Installed on the body below the horizontal compartments to prevent contact between the compartment door and the body • Two (2) bumpers per door 	_____
10.36	Wheel Well Area	<ul style="list-style-type: none"> • Shall incorporate a fibreglass or rubber fender flare • Wheel Well panels are removable 	_____
10.37	Drip Edge	<ul style="list-style-type: none"> • Installed along the full length of the body above the door openings • Designed to prevent water from entering into the storage compartments <p>State: method _____</p>	_____
10.38	Mud Flaps	<ul style="list-style-type: none"> • No name, fabric reinforced, black rubber mud flaps installed fore and aft of rear tires • ½ in. diameter steel bar anti-sail brackets 	_____
Main Deck Assembly			
10.39	Finish	All steel components of the Main Deck assembly including the Under-Deck Compartments shall be primed and finished	_____
10.40	Deck	<ul style="list-style-type: none"> • 3/16 in. steel checker plate with an under-deck storage compartment • Rain lip or drip moulding to prevent water from entering into the storage compartment 	_____

10.41 Deck Width Approximately 54 in. between fibre glass side packs _____

10.42 Under Deck Floor 1/8 in. steel plate _____

10.43 Under Deck Compartment Tailgate

- 3/16 in. aluminum construction
- Fold-down type with heavy duty hinges
- Chrome or stainless-steel paddle style door handle and latch

Lubrication

- Grease fitting required on each hinge

Or

- Hinge assembly and hinge pin is aluminum and has enough clearance that it will not seize up over time
- The end of the hinge is open and can be sprayed with lubricant if desired



10.44 Under Deck Compartments

- Qty three (3) complete with 1/8 in. thick steel dividers
- Section dimensions from right to left as follows

Note: Widths are measured between wheel wells

10.45 Under Deck Compartment # 1 Approximately 106L x 7H x 19D _____

10.46 Under Deck Compartment # 2 Approximately 73L x 7H x 16D _____

10.47 Under Deck Compartment # 2 (Cut-a-Way Stand)

- 3/16 in. steel plate
- dimensions approximately 4H x 16D
- Welded near rear of compartment space to prevent pipes/rods from rolling from side to side
- The plate shall have qty three (3), 1/2 circles cut into the top of the plate where pipes/rods will rest
- 1/2-circle cut-outs to be approximately 3 in. diameter



10.48	Under Deck Compartment # 3	Approximately 122L x 7H x remaining width	_____
10.49	Drain Holes	$\frac{3}{4}$ in. drain holes required at front of each under deck compartment	_____
10.50	Deck Sides	$\frac{3}{16}$ in. aluminum checker plate, extended full height up sides of fibreglass side packs	_____
10.51	Front Headboard	<ul style="list-style-type: none"> • Aluminum construction • Expanded metal • Approximately 27H x width of vehicle 	_____
10.52	Kick Plate, Rear of Body	<ul style="list-style-type: none"> • $\frac{3}{16}$ in. aluminum checker plate • Full width below deck floor level 	_____
10.53	Kick Plate, Front	<ul style="list-style-type: none"> • $\frac{3}{16}$ in. aluminum checker plate to protect lower front area of body protruding past chassis cab • Each side • Approximately 8 in. kick plate height 	_____
10.54	Sign Storage Provision	<ul style="list-style-type: none"> • Qty one (1) • 1 in. square steel tubing construction • Galvanized • Approximately 38L x 15H x 10D • Will use the brackets and bolt system from to spec 10.58 • Removeable and adjustable • Refer to below for design 	_____



Sign Storage Provision - Front



Sign Storage Provision - Side

10.55 Tailboard

- 6 in. high black poly board
- Mounted towards the front approximately 7 in. (i.e. towards cab) of the pipe vice
- Adequate cut-away for pipe to extend past body



10.56 Pipe Vice

- Ridgid BC 410, 1/8 in. – 4 in. Top Screw Bench Chain Vice
- 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.



Location to be determined at pre-production meeting

10.57 Sealant

Deck sides and kick plates caulked along edges using elastomeric sealant

Barricade Storage Brackets

10.58 Construction

- Qty six (6) brackets - three (3) per side
- Qty four (4) posts 19 in. L x 1.0 sq. tube
- Brackets shall be a 3W x 7H x ³/₁₆ steel bearing plate bolted to the side packs on the interior of the deck area.
- Spaced approximately 38 in. apart to match Sign Storage Provision spec 10.54
- Height adjustable with a bolt system drilled through all tubes
- Galvanized

Locations to be determined at pre-production meeting



Catwalk Structure

10.59 Regulations (Railings)

Manitoba Workplace Safety and Health Regulation, MR 217/2006, Part 14 Fall Protection

Guard Rails must be:

(a) is at least 900 mm (35.5 in.) high and not more than 1,060 mm (42 in.) above the working surface, with an intermediate rail at between 450 and 530 mm (18 and 21 in.) above the working surface;

and

(b) is constructed and secured to resist a static load of 900 N in any direction in which the load may be applied at any point on the top rail and on any intermediate rail

10.60 Construction

- 1 in. square steel tubing construction
- Wrap around the front, sides and partial rear of the body

10.61 Finish

Galvanized

10.62 Walkway

- Galvanized Grip Strut Safety Grating
- Installed to top of side packs
- Full length x full width
- 4-Diamond + 3-Diamond Grip Strut
- Bolt holes sealed as required

10.63 Platform

- Curb and street side railing to incorporate a platform
- 1st Platform approximately 18D x 20L
- 3-Diamond + 4-Diamond Grip Strut
- Approximately 18 in. above top of service body at rear corners
- Platforms shall have a railing above platform - three (3) sides



Platform - Front



Platform – Side

10.64 Mounting Bracket
(Arrow Board)

Incorporate a mounting bracket or frame suitable for mounting a pair of Traffic Arrows at the rear of the body above the top of the compartment, one per side

Rear Bumper and Hitch

10.65 Rear Bumper

- Heavy duty step type bumper
- Tubular steel construction
- Galvanized
- Tapered at outer ends
- 12 in. steel grip strut surface
- Recess for a Pintle hitch mount
- Approximately 16 in. step height from ground

10.66 Auxiliary Step

- Aluminum grip strut
- Approximately 7 in. L x full width of deck
- Located equidistant between bumper and deck level



Rear Bumper and Auxiliary Step

10.67 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
- Approximately 34-1/2 to centre of bumper from the ground



Exact mounting location to be determined at pre-production meeting

10.68 Combination Hitch

Premier Model 150 with 2 in. ball



10.69 Eye Bolt
(Required for Trailer Safety
Chains)

- One (1) each side of hitch
- Buyers Products B56730 or equal.

Grab Handles

10.70 Grab Handles

- Located for ergonomic access to deck
- Qty two (2)
- Diameter 1-1/4 in. (32 mm) – 1-1/2 in. (38 mm)
- Spacing behind grab bars approximately 3 in. (76 mm)
- Slip resistant
- Bolt-on construction
- Primed and painted safety yellow

Design and installation to be determined at a pre-production meeting



Grab Handle



Grab Handle

Running Boards

10.71 Construction

- Custom made:
- Extending entire length of underside of front and rear doors, each side.
 - AGS 6061 aluminium grip strut, 9-1/2" x 2" x .08"
 - Inside kick plate shall consist of 1/8" aluminium checker plate
 - Support brackets shall consist of 1 1/2" x 1 1/2" x 1/8" RC aluminium square tubing with 1/4" aluminium support plates

10.72 Mounting

- Cab steps to be mounted using the existing holes in the frame and body where applicable
- Use 3/8-16 nut inserts to secure the mounting brackets to the body



Running Boards

Rear Fenders

- | | | | |
|-------|--------------|--|-------|
| 10.73 | Rear Fenders | <ul style="list-style-type: none"> • Heavy Duty rear poly half-moon fenders complete with steel mounting hardware or • Aluminum wheel well covers | _____ |
|-------|--------------|--|-------|

Trailer Equipment

- | | | | |
|-------|-------------------|---|-------|
| 10.74 | Trailer Connector | SAE J560 7-Way Flat trailer receptacle mounted and installed in rear hitch plate complete with all necessary wiring | _____ |
|-------|-------------------|---|-------|

Note: The cab and chassis will be supplied (unattached) with Ford OEM Trailer Plug Socket and Electric Trailer Brake Controller

Installation to be determined at pre-production meeting

Back-Up Alarm

- | | | | |
|-------|---------------|---|-------|
| 10.75 | Back-Up Alarm | <ul style="list-style-type: none"> • SWS model 99901 • Mounted between frame rails at rear of vehicle • Protected from damage and road spray | _____ |
|-------|---------------|---|-------|

Rear View Camera

- | | | | |
|-------|------------------|--|-------|
| 10.76 | Rear View Camera | <ul style="list-style-type: none"> • The cab and chassis will be supplied (unattached) with a rear-view camera • Rear-view camera prep kit to include camera, screen (or displayed in rear view mirror) mounting hardware and OEM wiring harness • To be installed by body supplier | _____ |
|-------|------------------|--|-------|

Conspicuity Tape

- | | | | |
|-------|------------------|------------------------------------|-------|
| 10.77 | Conspicuity Tape | Truck-Lite 98127 or equal, affixed | _____ |
|-------|------------------|------------------------------------|-------|

Grease Fittings

- | | | | |
|-------|-----------------|---|-------|
| 10.78 | Grease Fittings | <p>Required:
 On tailgate release mechanisms, pivot points and drop-down side linkages</p> | _____ |
|-------|-----------------|---|-------|

Inverter

- 10.79 Inverter
- CSA approved
 - 110 Volt, 2500 Watts minimum
 - Make: Xantrex
 - Model: XPower 3000 Inverter
 - Part Number: 813-3000-UL
- _____

State:

Make: _____

Model: _____

- 10.80 Location
- Upper right corner inside the passenger side front compartment.
- _____

Location to be determined at pre-production meeting

- 10.81 Wiring
- Wired through ignition through dash mounted inverter mfg. remote switch
 - Labeled
 - Inverter to be complete with suitable solenoid and battery isolator
- _____

- 10.82 Receptacle
- One (1) required
 - Duplex receptacle
 - Mounted at front of service body, passenger side
 - Forward facing
 - Mounted as high as practicable so as not to interfere with interior shelf positioning
 - The receptacle shall be GFI, CSA approved
 - Weatherproof type with hinged covers
- _____



Location to be determined at pre-production meeting

- 10.83 Deep Cycle Battery
- Group 31, approximately 900 CCA
 - Mounted on a reinforced top shelf of the compartment
- _____

Location to be determined at pre-production meeting

10.84 Installation

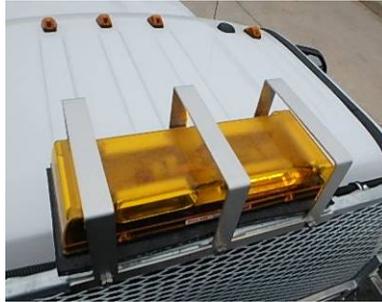
All exposed inverter terminals shall be: _____

- Coated with a dielectric grease
- Completely covered with shrink wrap tubing or rubber fittings

Lighting

10.85 Mini Light Bar – Amber

- Whelen R2LPPA Series Amber LED Mini Light Bar _____
- Mounted to centre top of cab
- Protected by Branch Guard – heavy duty construction
- Mini Light Bar shall be wired “Hot” (i.e. able to use without the key on), wired through a single OEM dash mounted switch or on the control panel enclosure, labelled “Light Bar” with a permanent type, engraved style label
- Switch shall be capable of amber mode



10.86 Amber Strobe Lights (Warning)

- Four (4) total _____
- Whelen 5GA00FAR
- Mounting grommets
- Two (2) located outside of 3-Light cluster, rear facing in rear kick plate
- Two (2) located on rails, side facing near front
- Amber Strobes shall be wired “Hot” (i.e. able to use without the key on), wired through a single OEM dash mounted switch or on the control panel enclosure, labelled “Strobes” with a permanent type, engraved style label



Locations to be determined at pre-production meeting

10.87 Traffic Advisors

- SWS 67301
- 1-piece aluminum with 1-1/2 square frame
- Aluminum front and rear panels
- Approximate size – 44 in. H x 22 in. W x 3-3/8 in. D
- 10 dual optic, LED modules with half sun shade
- Six (6) flash patterns
- 20 ft. of cable per half
- In-cab controller SWS 77501 with 10A auxiliary port
- Traffic Arrows shall be wired “Hot” (i.e. able to use without the key on), wired through a single OEM dash mounted switch or on the control panel enclosure, labelled “Traffic Advisors” with a permanent type, engraved style label



10.88 Light Switch Configuration(s)

- Amber strobes (rear ovals) controlled with one switch
- Mini Light Bar controlled with one switch capable of amber mode
- Traffic Advisor – separate controller

10.89 Combination Turn/Stop and Taillights

- One (1) per side
- Truck-Lite 44302R with P/N 44710 mounting grommets
- Flush mounted
- Mounted in rear of body at maximum practicable height

10.90 Back-Up Lights

- One (1) per side
- P/N Truck-Lite 44206C with P/N 44710 mounting grommets
- Mounted in rear of body

10.91	3-Light Cluster	<ul style="list-style-type: none">• Three (3)• Truck-Lite10250R with P/N 10403 mounting grommets <p>Or</p> <ul style="list-style-type: none">• Truck-Lite 3-Lamp ID light assembly 33740R• Located to protect from damage above auxiliary step <p>Locations to be determined at pre-production meeting</p>	_____
10.92	Clearance Lights	<ul style="list-style-type: none">• Grote 49333 and 49332 with mounting grommets <p>Or</p> <ul style="list-style-type: none">• Truck-Lite 33050R and 33050Y with 3370 mounting grommets <p>Note: shall not protrude beyond the Service body</p>	_____
10.93	Harness	<ul style="list-style-type: none">• Truck-Lite 50 Series or equivalent harness system• Properly routed• Internally grounded• Secured	_____
10.94	Compartment Lights	<ul style="list-style-type: none">• 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”	_____
10.95	Work Lights	<ul style="list-style-type: none">• Four (4) Truck-Lite P/N 80395 total• 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 two (2) OEM dash mounted switches• Labelled “Curb Work Lights” and “Street Work Lights” <p>Locations to be determined at pre-production meeting</p>	_____
10.96	License Plate Light	<ul style="list-style-type: none">• Complete with license plate bracket• P/N Truck-Lite 36140 (Light)• P/N Truck-Lite 36710 (Bracket)	_____

**Standards
(Where Applicable)**

Finish

10.97	Fibreglass	Fibreglass service body gel coat colour impregnated to match chassis cab colour	_____
10.98	Aluminum Components	Unfinished	_____
10.99	Deck	Deck surface properly cleaned and coated with: <ul style="list-style-type: none"> • Rust-Oleum AS5400 Anti-Slip Floor Covering • Black 	_____
10.100	Preparation	All steel components unless otherwise noted in these specifications shall be sandblasted, properly cleaned and primed	_____
10.101	Primer	Epoxy or Polyurethane	_____
10.102	Paint	Epoxy or Polyurethane	_____

Welding

10.103	Welds	Continuous welds	_____
10.104	Standard	CSA Standard W47.1-30 and W59-03	_____
10.105	Weld Spatter	Weld spatter to be removed prior to finish	_____

Clearance

10.106	Clearance	Clearance between Service body and back of truck cab shall be a minimum 3 in. in accordance with the Cab & Chassis Incomplete Vehicle Manual	_____
10.107	Tire Clearance	Body shall provide for approximately 4 in. clearance with rear springs fully loaded	_____

Installation

10.108	Not-Permitted	<ul style="list-style-type: none"> • Drilling on chassis frame flanges • Welding on the chassis frame 	_____
10.109	Holes	<ul style="list-style-type: none"> • Holes in the frame shall be drilled and reamed to fit bolts • Holes required to run wires through shall be drilled (not punched), grommeted and sealed as required 	_____
10.110	Isolators	<ul style="list-style-type: none"> • All interfaces between aluminium and steel are to be separated by an approximately 1/16 in. thick rubber or neoprene sheet • Shall be bolted through with stainless steel bolts and non-conductive bushings 	_____

10.111	Mounting Brackets	Shall be bolted to frame using Grade-8 fasteners.	_____
10.112	Mounting Standards	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	_____
10.113	Mounting Standards	<ul style="list-style-type: none">• 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	_____
10.114	Mounting Standards	Any holes required in frame must be drilled and reamed to fit bolts	_____
10.115	Mounting Standards	All non-continuous body seams (joints) shall be caulked with an automotive grade elastomeric sealant	_____

Lighting and Electrical

10.116	Conformance: <ul style="list-style-type: none">• LED Lighting• C.M.V.S.S.• Manitoba Highway Traffic Act.• City of Winnipeg Lighting Visibility Standard http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf	_____
10.117	Lighting: <ul style="list-style-type: none">• Supplier installed• High count LED	_____
10.118	Visibility: <ul style="list-style-type: none">• Taillights, back-up lights and warning lights to be fully visible when tailgate is lowered to horizontal position• No clearance light shall protrude beyond Service body	_____
10.119	Identification: <ul style="list-style-type: none">• All warning lights and switches to be identified with permanent, engraved type labels	_____
10.120	LED Strobe Lights: <ul style="list-style-type: none">• Shall be wired "Hot" (i.e. able to use without the key on), wired through a single OEM dash mounted switch or on the control panel enclosure, labelled "Strobes" with a permanent type, engraved style label	_____
10.121	Connection System: <ul style="list-style-type: none">• Weather Pack Sealed Connection System	_____
10.122	Grommets: <ul style="list-style-type: none">• Rubber grommets unless otherwise specified	_____

- 10.123 Harnesses: _____
- Harness system, properly routed and secured.
 - All harnesses shall be internally grounded, no exceptions
 - Colour coded or numbered
- 10.124 Junction Box: _____
- Complete with necessary compression fittings, required for all vehicle lighting harness connections
 - Securely located
 - Readily accessible for servicing
 - Waterproof
 - Protected from road spray
- 10.125 All Plug-In Connectors: _____
- All plug-in connectors shall be coated with Truck-Lite NYK Corrosion Preventive Compound prior to assembly
- 10.126 Wiring: _____
- All wiring to be colour coded, loomed and properly secured.
- 10.127 Electrical Connectors: _____
- All electrical connectors to be crimped, soldered and then sealed using heat shrink tubing
- 10.128 Joining of Wires: _____
- All joining of wires to be soldered and sealed using heat shrink tubing or approved OEM weather tight connections
- Note:** Crimp on electrical connectors for joining wires are not acceptable
- 10.129 Wiring Routing: _____
- Any holes required to run wires through shall be drilled (not punched), grommeted and sealed

11.0 **WARRANTY:**

11.1 All warranty information shall be detailed and **include all exclusions.** _____

The Contractor shall provide all published warranty information upon delivery of the equipment.

Bidder shall state all warranty information.

11.2 The warranty for the **Service Bodies** shall cover the complete equipment, and all parts thereof against any defects of workmanship, construction and materials. _____

Any equipment that has become defective during said warranty period and has not proven to have been caused by negligence on the part of the user shall be repaired or replaced at no cost to the City.

The warranty shall be effective from the date the equipment is put into service by the City of Winnipeg

11.3 Factory Warranty - Body **State:** Terms: _____

11.4 Inverter **State:** Terms: _____

11.5 Electrical **State:** Terms: _____

11.6 Battery **State:** Terms: _____

11.7 Paint **State:** Terms: _____

12.0 **DELIVERY:**

12.1 **Delivery Point:** _____

The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.V.I.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB.

12.2 **Delivery Time:** _____

Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days.

State: earliest delivery time from date of award: _____

12.3 **Delivery Contact:** _____

The Contractor shall contact the Contract Administrator prior to delivery of the equipment.

12.4 **P.D.I.:** _____

A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list

13.0 **MANUALS:**

13.1 The following manuals shall be supplied with the units when delivered: _____

- Operator's Manual – Two (2) per unit. One (1) Operator Manual shall be sent to the Equipment Operator Training Branch
- Parts and Service Manuals – One (1) complete set including preventative maintenance schedules. CDs or USB Drives are preferred.

14.0 **PARTS/LABOUR PRICING:**

14.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. _____

State: percentage discount: _____

14.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from retail shop labor rate. _____

State: percentage discount: _____

15.0 **FIRST SERVICE PREVENTATIVE MAINTENANCE KIT:**

15.1 If applicable, in order to assure minimum downtime of the Equipment in future service, the Contractor must provide 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, transmission, cab and hydraulic, or otherwise all known necessary common replacement filters required for the first preventative maintenance servicing and first transmission service. _____

15.2 The Contractor must 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. _____