

FORM N: DETAILED SPECIFICATIONS 26005

VAN UPFITTING

1. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 1.1 All items in these specifications should be answered indicating compliance or non-compliance.
- 1.2 **Proponents 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 **Van Upfitting** and other equipment and features as specified herein.
- 2.2 The **Van Upfitting** shall be a new 2026 model year or newer.
- 2.3 The **Van Upfitting** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished completely 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 **Van Upfitting** shall be the manufacturer's latest model, as may be modified by these specifications. The **Van Upfitting**, including all auxiliary equipment, shall be furnished complete and ready for use. All parts not specifically mentioned but which are required for the complete unit shall conform in strength, quality of material and workmanship, to the best standards and engineering practice in the industry.
- 2.5 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 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 **Van Upfitting** shall comply with the applicable regulations:

Standard - Specification/Regulation

Internet URL

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:	http://web2.gov.mb.ca/laws/regs/current/217.06.pdf
Canadian Motor Vehicle Safety Standards C.M.V.S.S.:	http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,_c._1038/section-sched3.html

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:

<http://www.ulc.ca>

Society of Automotive Engineers SAE:

<http://www.sae.org>

City of Winnipeg Lighting Visibility Standard:

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

Manitoba Building Code:

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

4. **PERIODIC MANDATORY VEHICLE INSPECTION (PMVI)**

- 4.1 Where applicable, the completed unit shall include a current Province of Manitoba Periodic Mandatory Vehicle Inspection (PMVI) with certificate.

5. **NATIONAL SAFETY MARK (NSM)**

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

State: NSM number: _____

6. **FUEL**

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

7. **REFERENCES**

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

8. **MAKE & MODEL**

- 8.1 State make, model and year being bid:

Vehicle / Equipment

Make: _____

Model: _____

Model Year: _____

9. **PERFORMANCE RELIABILITY**

- 9.1 The responsibility for the design of the **Van Upfitting** its performance and reliability shall rest upon the Contractor.
- 9.2 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.

- 9.3 Where the **Van Upfitting** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications to guarantee reliability of performance.
- 9.4 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).**

10. **SERVICE FACILITY**

- 10.1 For 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 of equipment being offered.
- 10.2 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
- 10.3 Bidders shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

11. **QUALIFICATIONS OF MANUFACTURER & CONTRACTOR**

- 11.1 The manufacturer of Van **Upfitting** shall have five (5) years continuous experience manufacturing **Van Upfitting**.
- 11.2 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.
- 11.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **Van Upfitting** of the type being offered.

12. **WEIGH SCALE TICKET**

- 12.1 Where applicable, 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 fully fuelled and operational including two (2) operators

13. **SPECIFICATIONS**

- 13.1 Van
- The City of Winnipeg will provide a: _____
- 2025 Ford Transit Cargo Van
 - High Roof
 - Extended Length
 - 148-inch wheelbase

Upfitting

- 13.2 Upfitting (General)
- The upfitting of this van will mirror the upfitting of a current van in-service _____
 - City unit number 1738468

Note: The van will be made available at a pre-production meeting

Flooring

- 13.3 Insulation
- Closed Cell Spray Foam _____
 - R-20
 - Waterproof

- 13.4 Floor
- Westcan Manufacturing # 19-6401 or equivalent _____

Walls and Ceiling

- 13.5 Insulation
- Closed Cell Spray Foam _____
 - R-20
 - Waterproof

- 13.6 Finish
- Kemlite GLASBORD Fiberglass Reinforced Plastic (FRP) composite panels _____
 - Joining strips
 - Cleanable
 - Stain resistant
 - Abrasion resistant
 - White

Seat

13.7 Seat

- **Occupants will be seated while the vehicle is in transit**
- One (1) passenger seat
- Heavy duty vinyl material to allow for ease of cleaning and decontamination
- Installed per manufacturer's guidelines
- Shall conform to FMVSS and CMVSS 207 and 210
- Certification to be supplied at delivery time

Part numbers from current installation

- EVS 1780
- ARLHV: left hand arm rest
- ARRHV: right hand arm rest
- SB-8: base swivel 8-position
- SST: boxing – seat and base
- BE3SBRB: retractor black wall mount 3-point
- BE3F4.5AS: buckle 3-point amsafe 4.5 in stake

State:

Make: _____

Model: _____



Laptop Stand

13.8 Laptop Stand

Gambler Johnson Products: _____

- 7160-0578-00 - Panasonic TOUGHBOOK® 54/55 Cradle



- 7300-0461 - Lind 120W Automobile Bare Wire Leads Power Adapter for Panasonic



- 7160-0220 - Mongoose® – 9" Locking Slide Arm: VESA 75mm & Gamber-Johnson Hole Pattern



- 7160-0178 - 7" (17.8 cm) Center-Mounted Complete Upper Pole



- DS-LOWER-9 - 9" Lower Tube Assembly



Cup Holder

13.9 Cup Holder

Note: location to be determined at pre-production meeting

Literature Storage

13.10 4 Place Literature Storage

- Qty one (1)
- 13-3/4"L X 3-1/4"D X 20"H
- Westcan Manufacturing # 50-1004



Partition

13.11 Partition

- Window
- Sliding door
- Westcan Manufacturing # 19-1051



Curb Side

Garment Lockers

13.12 Garment Locker

- Garment Locker
- 24-1/4 in L X 15-1/2 in D X 62 in H
- Westcan Manufacturing # 41-6220



13.13 Garment Locker Pedestal

- Aluminum
- Approximately 29 L x 19 D x 9 H inches
- Houses heating unit



13.14 Garment Locker

- Garment Locker
 - 14-1/4 in L X 15-1/2 in D X 62 in H
 - Westcan Manufacturing # 41-6210
-



Shelf

13.15 Shelf

- Aluminum
 - Approximately 72 in long x 12 in deep with 3 in lip
 - Support brackets
-



Davit Hoist System Storage

13.16 Holder – Wall
(Davit Hoist System)

- Aluminum
 - Base - approximately 17 in square base
 - Post - approximately 10 in H x 3 in outside Diameter x .25 in Wall
-



13.17 Holder – Floor
(Davit Hoist System)

- Aluminum
 - Base - approximately 21 in L x 21 in W
 - Posts – qty two (2), approximately 5 in H x 3.5 in outside diameter x .25 in wall
 - Contoured to fit around wheel well
-



Storage

13.18 Storage

- Aluminum
 - Concept per picture below
-



Street Side

Drawer Unit

13.19 8-Drawer Unit

- 24-3/8"L X 18-3/8"D X 56-1/4"H
- 3 drawers at 4-in height
- 3 drawers at 6-in height
- 2 drawers at 8-in height



Work Bench

13.20 Butcher Block Workbench Top

- 60"L X 15"D X 1-3/4"H
- Cut to size
- Westcan Manufacturing # 61-6015



13.21 Workbench End Panel Kit

- 15"D X 42"H
- Westcan Manufacturing # 22-3007



13.22 Shelves

- Qty three (3)
- 36"L X 12"D X 3"H
- May require cut to size to fit available space
- Westcan Manufacturing # 31-1236



SCBA Cylinder Storage

13.23 Cylinder Mate

- Qty two (2)
- Securely store and protect SCBA cylinders
- Performance Advantage Company (PAC)
CM6000



Shelf

13.24 Shelf – Wall Mounted

- Aluminum
- Located above work bench
- Approximately 64 in long x 12 in deep with 3 in lip
- Support brackets



Air Compressor Storage

13.25 Air Compressor Storage

Securely store and protect air compressor



AC Enclosure

13.26 AC Enclosure

- Aluminum
- Protect the AC unit from damage



Hose Reel

13.27 Hose Reel

- Coxreels EZ-SH-3100
- Heavy-Duty
- Air and Water
- Spring Rewind
- Low Pressure 3/8" x 100' Hose
- 300 PSI rating



Miscellaneous

Auxiliary Rear Heater

13.28 Auxiliary Rear Heater

- Latest version of Espar heating unit suitable for application – Airtronic B4
- Ducted to the front and rear cargo areas divided by the partition
- Provide cover for heating unit for protection from impact damage and water
- Heating unit should be easily accessible

Note: Auxiliary rear heater (gas) for the rear compartment so that crews can work in the back of the van during winter months

Threshold

13.29 Steel Floor Threshold Set

- Ford F709-151-1018
- With Full Lower Step
- High-visibility yellow

Grab Handle

13.30 Grab Handle

Located rear cargo door curb side



Swivel Hook

13.31 Swivel Hook

- Qty six (6)
- Red
- 4-1/2 opening
- Westcan Manufacturing # 65-1002-03



Receiver Step

13.32 Receiver Step

- 24 L x 4 Drop
- Westcan Manufacturing # 63-1006



Inverter

13.33 Inverter

- CSA approved
- 110 Volt, 4500 Watts minimum

State:

Make: _____

Model: _____

13.34 Deep Cycle Battery

- Group 31, approximately 900 CCA or equivalent Model AGM Battery/Deep Cycle
- Mounted in a battery box with cover to provide protection for their terminals, and unintentional shock hazards
- Battery - Operating temperature range- 40°F / -40°C to 140°F / +60°C
- Battery Cold Start Performance S.A.E J537

13.35 Installation

All exposed terminals shall be:

- Coated with a dielectric grease
- Completely covered with adhesive-sealant-lined shrink tubing must be used to guarantee joint integrity, waterproofing and strain relief, or rubber fittings

13.36 Wiring

- Inverter wired through ignition at the dash. Ensure to mounted inverter manufacturer remote switch
- Labeled
- Inverter to be complete with suitable solenoid and battery isolator
- The wiring should have the capability to carry approximately fourteen (14) volts of alternator charging voltage from the engine compartment (when engine running) to the deep cycle battery connected to the inverter.

Electrical

- | | | | |
|-------|--------------------|--|-------|
| 13.37 | Electrical Package | <ul style="list-style-type: none">• 120VAC electrical package• CSA certified | _____ |
| 13.38 | Electrical Panel | <ul style="list-style-type: none">• Electrical panel with main breaker• CSA approved• 30 amp• 4 - Spaces• 8 - Circuit• Complete with door• Equipped with a Surge Protective Device | _____ |

Electrical Outlets

- | | | | |
|-------|--------------------|---|-------|
| 13.39 | Electrical Outlets | Ensure the bid submission includes provisions for the supply and installation of up to six (6) electrical outlets | _____ |
|-------|--------------------|---|-------|

Back-Up Alarm

- | | | | |
|-------|---------------|--|-------|
| 13.40 | Back-Up Alarm | <ul style="list-style-type: none">• SWS model 99202 or equivalent functionality product• Protected from damage and road spray | _____ |
|-------|---------------|--|-------|

Vehicle Modifications

- | | | | |
|-------|---------------|---|-------|
| 13.41 | Load Leveling | <ul style="list-style-type: none">• Air Lift® LoadLifter 5000™ Series• Kit 57213• Load Controller Kit 25592 | _____ |
|-------|---------------|---|-------|



13.42 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 fully fuelled and operational including two (2) operators.

Lighting

13.43 Ceiling Lights

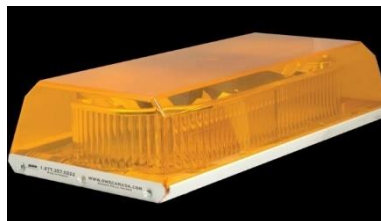
- Qty three (3)
- LED flat panel
- SWS part no. 93780

Note: Quantity and location to be determined at pre-production meeting



13.44 Light Bar

- Qty two (2)
- SWS 16311
- Amber
- Low profile
- Complete with in-cab controller
- Complete with beacon guards
- 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.



13.45 Traffic Arrow
(Front of Vehicle)

- Qty one (1)
- Complete with in-cab controller
- SWS 58010



13.46 Traffic Arrow
(Back of Vehicle)

- Qty one (1)
- Complete with in-cab controller
- SWS 58056



13.47 Work Lights

- Qty two (2)
- Complete with in-cab controller/switches
- Grote 63981
- Installed on roof at rear of van
- Work lights to be wired through neutral safety switch, panel actuated
- Labelled "Work Lights"



13.48 Scene Lights

- Whelen 900 Series Large Surface Mount LED Perimeter Light - 9SC0ENZR or equivalent
- Quantity two (2)
- one (1) each side of van
- top centre, near roofline
- Switch panel actuated on two (2) separate switches
- Labelled "Curb Work Lights" and "Street Work Lights"
- Include spacer and gasket for surface mounting



13.49 Strobe Lights

- Six (6) total
- Whelen TIR3 or equivalent
- Front:
 - Two (2) front facing or behind grille
- Rear:
 - Four (4) rear facing on rear doors
- Strobe Lights 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



13.50 Roof Rack Cross Bars

As required for installation of exterior lighting

Lighting Standard

- 13.51 Conformance: _____
- LED Lighting
 - C.M.V.S.S.
 - Manitoba Highway Traffic Act.
 - City of Winnipeg Lighting Visibility Standard
<http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>
- 13.52 Lighting: _____
- Supplier installed
 - LED
- 13.53 Dealer Installed: _____
- All locally installed accessories shall be color coded, loomed and properly secured
 - Splicing in any factory harness is unacceptable
 - All electrical power for locally supplied electrical components to be supplied from an OEM power distribution box
- 13.54 Visibility: _____
- Taillights, back-up lights and warning lights to be fully visible
 - No clearance light shall protrude beyond the service body
- 13.55 Identification: _____
- All dash mounted warning lights and switches to be identified with permanent, engraved type labels
 - No labels to be located on upper surface of dash
- 13.56 LED Strobe Lights: _____
- Shall be wired "Hot" (I.e. able to be used without the key on)
 - All LED strobe lights shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled "Strobes" with a permanent type, engraved style label
- 13.57 Connection System: _____
- Weather Pack Sealed Connection System or equivalent system having same industry specifications.
("J-Box" and shrink tube acceptable)
- 
- 13.58 Grommets: _____
- Rubber grommets unless otherwise specified
- 13.59 Harnesses: _____
- Harness system properly routed and secured.
 - All harnesses shall be internally grounded, no exceptions.
 - Colour coded or numbered.
- 13.60 Junction box: _____
- Complete with necessary compression fittings, required for all vehicle lighting harness connections.
 - Securely located
 - Waterproof

- Readily accessible for servicing
- Protected from road spray

- 13.61 All Plug-In Connectors: _____
- All plug-in connectors shall be coated with Truck-Lite NYK Corrosion Preventive Compound prior to assembly.
- 13.62 Compartment Lights: _____
- LED continuous "rope" style lighting in all service body compartments, properly secured to prevent damage.
- 13.63 Wiring: _____
- All wiring to be colour coded, loomed, and properly secured.
 - All LED strobe lights shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled "Strobes" with a permanent type, engraved style label.
- 13.64 Electrical Connectors: _____
- All electrical connectors shall be crimped, soldered, and then sealed using heat shrink tubing.
- 13.65 Joining of Wires: _____
- All joining of wires shall 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**
- 13.66 Exposure: _____
- All wiring for work lights and warning lights shall be supplied with no exposed wiring
- 13.67 Wiring Routing: _____
- Any holes required to run wires through shall be drilled and deburred (not punched), grommited and sealed.

WARRANTY

- 14.1 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.

- 14.2 The warranty for the **Van Upfitting** 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

DELIVERY

- 15.1 **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 195 Tecumseh Street, Winnipeg MB.

- 15.2 **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: _____

- 15.3 **Delivery Contact:** _____

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

- 15.4 **P.D.I.:** _____

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

MANUALS

16.1 **Manuals:**

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

Operator – Two (2) Copies

- One (1) copy shall be sent to the Equipment Operator Training Branch
- One (1) copy to be left with the equipment

Parts and Service

- One (1) complete set including preventative maintenance schedules

Note: CD or USB flash drive is preferred where available

PARTS/LABOUR PRICING:

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

State: percentage discount: _____

17.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from Retail shop labor rate.

State: percentage discount: _____

NOTES