

FORM N: DETAILED SPECIFICATIONS 22036

BACKHOE LOADER

1. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 1.1 All items in these specifications should be answered indicating compliance or non-compliance.
- 1.2 **Bidders 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 Bidder 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 Bidder 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 **Backhoe Loader** and other equipment and features as specified herein. These units are an integral portion of the City of Winnipeg Cemeteries Department's equipment fleet as they are used year-round during all seasons. The vehicles will be used for hauling and dumping.
- 2.2 The **Backhoe Loader** shall be a new **2023** model year or newer.
- 2.3 The **Backhoe Loader** 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 **Backhoe Loader** 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/motor-vehicle-safety-regulations)

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

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 **Backhoe Loader** 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, or 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 **Backhoe Loader** 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 **Backhoe Loader** shall have five (5) years continuous experience manufacturing **Backhoe Loader**.
- 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 **Backhoe Loader** of the type being offered.

10. SPECIFICATIONS

Backhoe Loader Specifications

10.0	Make	State: make: _____	_____
10.1	Model	State: model: _____	_____
10.2	Model Year	Model Year 2023 or newer State: model year: _____	_____
Engine			
10.3	Engine Make & Model	State: _____	_____
10.4	Engine Specification	<ul style="list-style-type: none"> • Diesel • Tier IV Final Certified meeting current Emission Standards 	_____
10.5	Horse Power (Net)	Approximately 130 - 150 HP State: horsepower: _____	_____
10.6	Torque (Net)	Approximately 400 lb.-ft. State: torque: _____	_____
10.7	Fuel Shut Off	Electric solenoid type	_____
10.8	Fuel Filter	With water separator	_____
10.9	Oil Filter	Full flow, spin-on type	_____
10.10	Air Cleaner	<ul style="list-style-type: none"> • Dry cartridge type • Dash mounted restriction indicator 	_____
10.11	Throttle	Hand operated with foot override	_____
10.12	Exhaust	<ul style="list-style-type: none"> • Muffled • Vertical discharge with bend • 40° cut-off Note: rain cap unacceptable	_____
10.13	Coolant	Extended life, protected to -40° C	_____
10.14	Engine Block Heater	Approximately 750 Watts	_____
10.15	Cold Weather Starting Aid	Glow plugs or air intake warmer State: type: _____	_____

10.16	Front Radiator Guard	<ul style="list-style-type: none"> • Made from steel and painted • Protects radiator from rocks and debris when using the front loader • Designed to permit servicing of radiator without being removed 	_____
10.17	Fuel Tank	State: capacity: _____	_____
	Electrical System		
10.18	Type	12-Volt, negative ground electrical system	_____
10.19	Electric Starter	With key starter switch	_____
10.20	Batteries	<ul style="list-style-type: none"> • Dual batteries • Maintenance free • Approximately 1900 CCA combined capacity State: CCA: _____	_____
10.21	Battery Disconnect Switch (Lockable)	<ul style="list-style-type: none"> • Protected from the elements • Lockable with pad lock 	_____
10.22	Alternator	Approximately 150 Amp State: capacity: _____	_____
	Hydraulic System		
10.23	Pump	<ul style="list-style-type: none"> • Variable displacement or axial piston pump • Load sensing • Approximately 50 gal/min State: Pump type: _____ Capacity: _____	_____
10.24	Hydraulic Oil Cooler	Complete with independent reservoir	_____
10.25	Hydraulic Oil Levels	Sight gauge	_____
10.26	Hydraulic Quick Attach Coupler(s) (Loader)	<ul style="list-style-type: none"> • For quick attachment of loader bucket • In cab controls to release pins 	_____
10.27	Hydraulic Lines - Additional	Required to accommodate auger attachment	_____
10.28	Auxiliary Hydraulics	<ul style="list-style-type: none"> • For attachment growth • 3rd function valve • High flow pump • Couplers and controls shall be provided as required 	_____
	Lights		
10.29	LED Lighting	All lighting LED	_____
10.30	Combined Stop and Tail Lights	Two (2)	_____

10.31	Signal Lights with Warning Flashers	Two (2) front and two (2) rear	_____
10.32	Warning Flashers	Operable with key removed	_____
10.33	Headlights	Two (2)	_____
10.34	Working Lights	<ul style="list-style-type: none">• Front: four (4) front mounted, adjustable, located immediately below cab roof line• Rear: four (4) rear mounted, adjustable, located immediately below the cab roof line• Side-two (2) side mounted, located immediately below cab roof line	_____
10.35	Light Switches	<ul style="list-style-type: none">• Independent on/off switch for each pair of work lights• Dash mounted and wired through ignition• Labeled with permanent type, engraved style labels	_____
10.36	Cab Interior Light	Interior light with door switch(es) and master switch	_____
10.37	Safety Lighting (Beacon)	<ul style="list-style-type: none">• Make and Model: Whelen L31 Series Super-LED, SAE Class 1 Blue/Amber (individual control) beacon• 360-degree visibility• Wired through ignition, lights shall be wired for separate amber and separate blue labelled independently "winter", "off", "summer"• The winter mode will turn on both blue and amber• The summer mode will only turn on the amber	_____
10.38	Beacon Guard	<ul style="list-style-type: none">• Heavy duty bolt-on metal guard• Ramped• Designed to permit servicing of beacon without being removed	_____
10.39	Flashing Backup Lighting	<ul style="list-style-type: none">• Make and model: Grote 77461or Whelen TIR3 (clear)• Wired to flash when the unit is in reverse	_____

- 10.40 Wiring Standard _____
- 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
 - All joining of wires and electrical connectors shall be soldered and sealed with heat shrink tubing
 - All wiring for work lights and warning lights shall be supplied with no exposed wiring

2-Way Radio Installation Provision

- 10.41 Radio Installation Provision _____
- 12 volt, 20Amp independent circuit
 - Available at a spare circuit breaker
 - Suitable for installation of a 2-way mobile radio

Front Tires

- 10.42 Front Tires _____
- Michelin or Bridgestone radial or bias
State: front tire: _____

- 10.43 Ply Rating _____
- State:** ply rating: _____

- 10.44 Tread _____
- R4, industrial tractor

Rear Tires

- 10.45 Rear Tires _____
- Size 21L-28, Michelin or Bridgestone radial or bias
State: rear tire: _____

- 10.46 Ply Rating _____
- State:** ply rating: _____

- 10.47 Tread _____
- R4, industrial tractor

Fenders

- 10.48 Fenders (Extensions) _____
- Front and rear
 - Rubber or polymer
- State:** material: _____

Axles & Brakes

- 10.49 Front Axle _____
- Driven type (4WD) with guarded drive shaft (limited slip differential)

- 10.50 Rear Axle _____
- Differential lock, push button activation

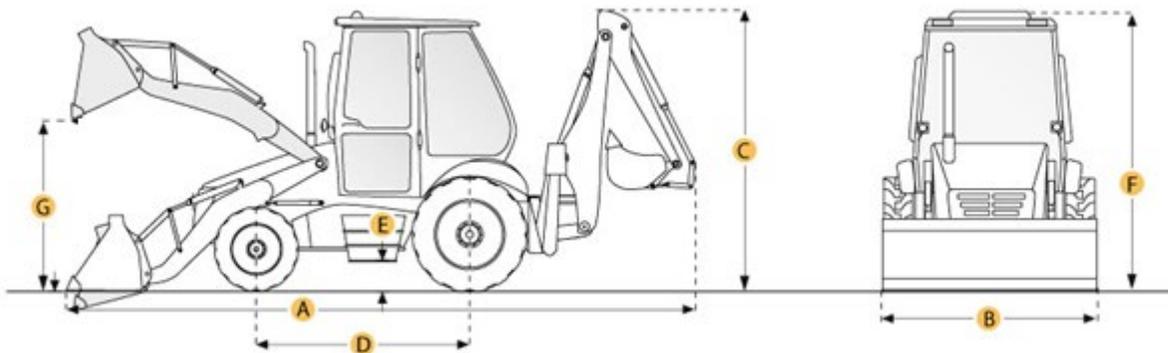
- 10.51 Brakes _____
- Wet disk type with individual pedals simultaneous or independent operations

- 10.52 Parking Brake _____
- Foot or hand operated
State: type: _____

Transmission

- 10.53 Type Power-shift transmission with torque convertor _____
State: type: _____
- 10.54 Shifting Fully synchronized _____
- 10.55 Speeds - Forward **State:** _____
Number of forward speeds available: _____
- 10.56 Speeds - Reverse **State:** _____
Number of reverse speeds available: _____
- 10.57 Power-Shift Direction reverser _____

Dimensions



Line drawings are for illustrative purposes only and may not be exact representation of unit

- 10.58 Overall Transport Length (A) Approximately 26 ft. _____
State: overall length: _____
- 10.59 Overall Transport Width (B) Approximately 8 ft. _____
State: overall width: _____
- 10.60 Overall Transport Height (C) Approximately 14 ft. in. _____
State: overall height: _____
- 10.61 Overall Width Stabilizer spread, outside edge of pad _____
State: overall width: _____
- 10.62 Wheelbase (D) Approximately 84 – 96 in. _____
State: wheelbase: _____
- 10.63 Ground Clearance (E) Approximately 12 in. _____
State: ground clearance: _____
- 10.64 Overall Height (Top of Cab) (F) Approximately 9 ft. _____
State: overall height: _____
- 10.65 Operating Weight (As Bid) Approximately 25,000lbs. (without attachments) _____
State: operating weight: _____

Front End Loader

10.66	Lift Capacity, Full Height	<ul style="list-style-type: none">• Approximately 9000 lbs.• Equipped with General Purpose Bucket State: lift capacity: _____	_____
10.67	Bucket Breakout Force	<ul style="list-style-type: none">• Approximately 13,500 - 16,500 lbs.• Equipped with General Purpose Bucket State: breakout force: _____	_____
10.68	Dump Clearance as Bid (G)	<ul style="list-style-type: none">• Bucket @ 45°• Approximately 108 inches State: dump clearance: _____	_____
10.69	Controls	Single lever control with electric clutch disconnect	_____
10.70	Bucket Return-To-Dig	Automatic	_____
10.71	Float	Allows the bucket to "float" with the contour of the land	_____
10.72	Self-Levelling	<ul style="list-style-type: none">• Designed to keep loads level throughout the lift• Complete with level indicator	_____
10.73	OEM Ride Control	Factory installed	_____
10.74	Wear Plate (S)	Required to prevent bucket heel from rubbing on ground with bolt-on cutting edge in place	_____
10.75	Lashing Ring	<ul style="list-style-type: none">• Heavy duty• Steel weld-on hook with spring mounted clasp• Top-center mounted at front of loader bucket	_____

10.76 Multi-Purpose Bucket _____

- Versatility for clamping, dozing, grading, leveling and dumping
- Approximately 96-inch width
- Approximately 1.5 – 1.75 cu yd. capacity
- Bolt-on replaceable cutting edge including one (1) spare
- Lashing ring
- Safety hooks
- Modified to include additional hooks – qty four (4)

Note: Final design of hooks to be determined at a pre-production meeting

State:

- Make: _____
- Model: _____
- Part number: _____
- Overall width: _____
- Capacity: _____



Maintenance

10.77 Loader Safety Prop Bar _____

- Equipped with a loader safety prop bar for safety when servicing loader arms
- Stored on the machine

Backhoe

10.78 Type _____

- Centre pivot
- Complete with extendable dipper-stick extension

- | | | | |
|-------|---------------------------------|---|-------|
| 10.79 | Maximum Digging Depth | Approximately 17.0 ft. with standard stick
Approximately 21 ft. with extended stick extended
State:
Digging depth (standard): _____
Digging depth (extended): _____ | _____ |
| 10.80 | Digging Force (Bucket Cylinder) | <ul style="list-style-type: none"> • Approximately 17,000 lbs. • With dipper stick retracted • Equipped with 24-inch bucket State: digging force: _____ | _____ |
| 10.81 | Digging Force (Crowd Cylinder) | <ul style="list-style-type: none"> • Approximately 11,000 lbs. • With dipper-stick retracted • Equipped with 24-inch bucket State: digging force: _____ | _____ |
| 10.82 | Controls | <ul style="list-style-type: none"> • SAE excavator style, pilot operated hydraulic joystick controls • Pattern changer, in cab | _____ |
| 10.83 | Coupler – Pin Lock | <ul style="list-style-type: none"> • Fully compatible with attachments • Plated engagement pin • Locking pin with lanyard | _____ |



- | | | | |
|-------|------------------------|---|-------|
| 10.84 | Backhoe Transport Lock | Transport lock | _____ |
| 10.85 | Integrated Lifting Eye | Lifting eye integrated into the backhoe arm | |



10.86 Front Counterweight Supplied as to provide proper machine balance and loading characteristics _____

10.87 Replaceable Bushings and Grease Fittings Located at: _____
• Backhoe pivot points
• Cylinder rod and closed ends
• Bucket links

Stabilizer Pads

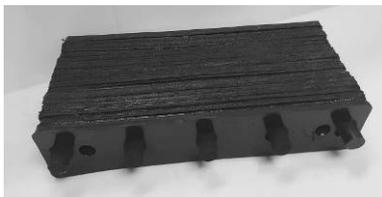
10.88 Stabilizer Pads _____
• Compatible and interchangeable in Pad Assembly
• One (1) set summer type
• One (1) set winter type

Winter Pad design:

- Steel plate
- Eight (8) steel spikes – approximately 1.25 in. diameter x 2.5 in. high
- Tapered at top

Note: Winter pad design to be approved at Pre-Production Meeting

See below for sample designs



Summer - Pad



Winter - Pad



Pad – Assembly



Pad – Summer Mounted

Tie Down Provisions

- | | | | |
|-------|-----------|---|-------|
| 10.89 | Tie Downs | <ul style="list-style-type: none"> • Tie down provisions for unit trailering • Front and rear | _____ |
|-------|-----------|---|-------|

Operator Cab

- | | | | |
|-------|---------------------------------------|--|-------|
| 10.90 | Roll-Over Protective Structure (ROPS) | <ul style="list-style-type: none"> • OSHA certified or equal • Complete with pressurized cab | _____ |
|-------|---------------------------------------|--|-------|

- | | | | |
|-------|--------------------------|--|-------|
| 10.91 | Insulation and Headliner | For sound suppression and severe weather/climate | _____ |
|-------|--------------------------|--|-------|

- | | | | |
|-------|----------------|----------------------------|-------|
| 10.92 | Floor Covering | Rubber matting, throughout | _____ |
|-------|----------------|----------------------------|-------|

- | | | | |
|-------|------|---|-------|
| 10.93 | Seat | <ul style="list-style-type: none"> • Air suspension • Cushioned • Adjustable bucket type with arm rests • Cloth upholstery • Retractable seat belt | _____ |
|-------|------|---|-------|

- | | | | |
|-------|-------|--|-------|
| 10.94 | Radio | AM/FM Complete with: <ul style="list-style-type: none"> • Bluetooth® Technology - For use with cellular phones • “Hands-free” capable • Voice command activated through vehicle’s radio circuit | _____ |
|-------|-------|--|-------|

- | | | | |
|-------|-------------|--|-------|
| 10.95 | All Windows | <ul style="list-style-type: none"> • Tinted safety glass with appropriate markings for all panes • Opening type where applicable | _____ |
|-------|-------------|--|-------|

10.96	Ignition Keys	Four (4) sets	_____
10.97	Doors	<ul style="list-style-type: none">• One (1) each side• Complete with spring assisted strut• Lockable with common key	_____
10.98	Mirror – Rear View	Adjustable	_____
10.99	Mirror - Exterior	<ul style="list-style-type: none">• One (1) each side (left-right)• Adjustable	_____
10.100	Windshield Wipers and Washer System	<ul style="list-style-type: none">• Front windshield wiper• Rear windshield wiper• Windshield washer system	
10.101	HVAC	<ul style="list-style-type: none">• Air conditioning• Heater/defroster• Multi-speed fan	_____
10.102	Steps	Open grate style	_____
10.103	Instrumentation	<ul style="list-style-type: none">• Coolant temperature-gauge with audible alarm• Engine oil pressure- gauge or warning light with audible alarm• Engine hour meter-non-resettable type• Tachometer• Fuel gauge	_____
	Safety		
10.104	Fire Extinguisher	<ul style="list-style-type: none">• 5 lbs. Fire Extinguisher ABC type• Installed and secured State: location: _____	_____
10.105	Slow Moving Sign	Grote 71152 with bracket mounted to rear of the unit.	_____
10.106	Back-Up Alarm	<ul style="list-style-type: none">• Approximately 97 dBA• Mounted to be protected from damage	_____
10.107	Horn	Operable from both: <ul style="list-style-type: none">• Driving position• Backhoe position	_____

Attachments

Note: Attachments to be priced only as indicated on Form B: Prices

Cemetery Bucket

- Specifically designed for digging straight vertical walls
- Replaceable pin-on teeth
- Winter frost teeth
- Complete with required attachment pin(s)
- Complete with certified lifting hooks

Note: Final design of Cemetery Buckets and teeth to be confirmed at Pre-Production Meeting and approved by City of Winnipeg

10.108	24-inch Ditching Bucket	<ul style="list-style-type: none">• 24-inch• Five (5) replaceable pin-on teeth• Backhoe to be delivered with 24-inch ditching bucket (w/teeth) installed. <p>State:</p> <ul style="list-style-type: none">• Make: _____• Model: _____• Part number: _____• Number of teeth: _____• Capacity: _____	_____
10.109	36-inch Cemetery Bucket	<ul style="list-style-type: none">• 36-inch• Six (6) replaceable pin-on teeth <p>State:</p> <ul style="list-style-type: none">• Make: _____• Model: _____• Part number: _____• Number of teeth: _____• Capacity: _____	_____
10.110	40-inch Cemetery Bucket	<ul style="list-style-type: none">• 40-inch• Seven (7) replaceable pin-on teeth <p>State:</p> <ul style="list-style-type: none">• Make: _____• Model: _____• Part number: _____• Number of teeth: _____• Capacity: _____	_____

10.111 Auger Drive Unit

- Auger drive unit, including mounting bracket, hoses, case drain plumbing and flat face disconnects
- Variable speed
- Bi-directional
- High flow hydraulics
- 2-in. hex output shaft
- 4-ft extension
- 12-in auger bit
- 18-in auger bit

Automatic Lubrication System

10.112 Automatic Lubrication System: _____

- NLGI-2 heavy-duty automatic lubrication system
- System layout shall perform under the operating principles of a Parallel Injection System
- Progressive systems not acceptable
- Grease system shall be connected to all grease points where applicable
- Outfitted with automatic low level shut-off
- In cab monitor showing system status such as low level, low pressure and/or fault code display

10.113 Pump Reservoir: _____

- Grease pump - Pneumatic, using an electric solenoid for cycle activation **or** an electric driven only, any other pump supplied will not be accepted
- 6kg or larger pump with clear reservoir (appropriate for the size of the machine)
- Parameters preprogrammed required to accommodate 500-hour service intervals.
- Pump must have correct filler adapter fitting for City of Winnipeg maintenance staff to refill reservoir
- Adapter fitting-Parker part# H2-63.
- For safety reasons, access to refill the pump reservoir shall be via remote fill line of min. 3/8in. hose to accommodate a refill procedure at ground level
- The refill adaptor must be secured with a bulkhead and angle bracket free from being snagged on anything or sharp edges
- All connected components must be prefilled with grease prior to connection of the automatic lubrication system

10.114 Power Input: _____

System power connection 12 or 24-Volt to ignition source with an accessible fuse protection and for automatic lubrication system to shut down completely when the engine is turned off

10.115 Grease Lines – Main: _____

- Extreme Low temperature steel braided rubber hose (example: Eaton Aero Quip Match Mate Global Ice SAE 100R16) with compatibility to accommodate max working pressure of 6000 psi.
- Each hose on all connected points outfitted with #4 JIC crimped or reusable ends.
- Thread sealant for grease lines of each fitting must be applied
- In extreme environment areas such as the lower machine articulator pin, and front bucket pins, heavy wall pipe must be fitted

10.116 Grease Lines – Secondary: _____

- 1/8 in. I.D. braided hose with 6000 psi working pressure or equivalent
- Each hose on all connected points must be outfitted with #4 JIC crimped or reusable ends required for the entire automatic lubrication system
- Installed and protected from extreme environments such as heat sources and components producing vibration
- Protected from tree and or branch impact on any body components higher than 6 feet from ground level
- For diagnostic purposes, all secondary grease lines must use color coded line from the injector to the connected component
- Thread sealant for grease lines of each fitting must be applied

10.117 Greasing Points: _____

State: quantity of greasing points: _____

10.118 Greasing Points Not Connected to Automatic Lubrication System: _____

- Grease points that cannot be connected to the automatic lubrication system must be connected with remote grease lines – considered for extreme environments areas
- Telescopic working end of backhoe (bucket linkage) not required to be connected to the automatic lubrication system
- Where remote lines are used, decals must be applied stating manual greasing is required with recommended grease application intervals

State: quantity of grease points that cannot be connected to the automatic lubrication system but will be connected with remote lines only:

10.119 Injector Manifolds: _____

- All manifolds and injectors shall be brass construction
- All manifolds must be fitted with nylon lock nut hardware and securely mounted in an area away from debris impact and extreme heat sources
- Special guards should be fitted for injector manifolds and hoses in areas of consistent debris impact, i.e., snow, ice, road spray, etc.

10.120 Environmental Impact Features: _____

- Ensure the system does not grease while parked or leave excessive grease on roadways, streets etc.
- System layout and grease injector delivery shall not over grease any component to the extent where OEM warranties are voided

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 **Backhoe Loader** 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

Warranty

11.3 Basic coverage **State:** Terms: _____

11.4 Power train **State:** Terms: _____

11.5 Hydraulics warranty **State:** Terms: _____

11.6 Batteries warranty **State:** Terms: _____

11.7 Tires warranty **State:** Terms: _____

11.8 Electrical warranty **State:** Terms: _____

11.9 Cab Structure/Corrosion **State:** Terms: _____

11.10 Automated Lubrication System **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 Winnipeg Fleet Management Agency (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 **Manuals:** _____

The following manuals shall be supplied with the equipment 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

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.
