

INVITATION TO BID
Diesel Powered 4.0 Cubic Yard Volumetric Capacity
Mid-Sized Street Sweeper

City of Fort Mitchell
2355 Dixie Highway
Fort Mitchell, KY 41017

City of Edgewood
385 Dudley Road
Edgewood, KY 41017

The City of Fort Mitchell and the City of Edgewood jointly invite bids to provide One (1) Diesel Powered 4.0 Cubic Yard Volumetric Capacity Mid-Sized Street Sweeper.
BIDS MUST BE SUBMITTED BY: APRIL 24 AT 3:00 PM EDT.

SEALED BIDS MUST BE MAILED OR PHYSICALLY DELIVERED TO:

City of Fort Mitchell
City Clerk/Treasurer
2355 Dixie Highway
Fort Mitchell, KY 41017

BIDS SHALL BE SEALED IN AN ENVELOPE AND CLEARLY MARKED:
STREET SWEEPER BID

Bids will be opened and read at the above time, date, and address. The bids will be tabulated and referred to the Public Works Director of each City for a recommendation to their respective City Administrators, Mayors, and/or City Councils. The Cities reserve the right to reject any and all bids. Any information about the bids may be obtained from:

Matt Stegman, PE
2355 Dixie Highway
Fort Mitchell, KY 41017
859.331.1212 ext. 251
MStegman@FortMitchell.com

Bids shall be submitted on the forms provided and must be manually signed. Bids received after the opening date and time will be rejected. The attached Instructions to Bidders, General Conditions, and Specifications shall become part of any purchase order resulting from this Invitation to Bid.

It is the intent of City of Fort Mitchell and the City of Edgewood that this Invitation to Bid promote competitive bidding. It shall be the vendor's responsibility to advise the Cities if any language, requirements, etc., or any combination thereof, inadvertently restricts or limits the requirements stated in this Invitation to Bid to a single source. Such notification must be submitted in writing and must be received by the Fort Mitchell City Clerk/Treasurer at the above address no later than three (3) days after the opening date.

INSTRUCTIONS TO BIDDERS

1. Opening Location

The bids will be publicly opened at:

**City of Fort Mitchell
City Clerk/Treasurer
2355 Dixie Highway
Fort Mitchell, KY 41017**

at the due time and date indicated in this Invitation to Bid. All bidders or their representative are invited to attend or inquire on the award status information.

2. Delivery Requirements

Any bids received after the stated time and date will not be considered. It shall be the sole responsibility of the bidder to have the bid delivered to the City of Fort Mitchell for receipt on or before the due time and date indicated. If a bid is sent by U.S. Mail, the bidder shall be responsible for its timely delivery. Bids delayed by mail shall not be considered, shall not be opened, and shall be rejected. Arrangements may be made for return of the bid at the bidder's request and expense.

3. Clarification and Addenda

Each bidder shall examine all Invitation to Bid documents and shall judge all matters relating to the adequacy and accuracy of such documents. Any inquiries, suggestions, or requests concerning interpretation, clarification or additional information pertaining to the Invitation to Bid shall be made via email to Matt Stegman at MStegman@FortMitchell.com. The City of Fort Mitchell and the City of Edgewood ("the Cities") shall not be responsible for oral interpretations given by any employee, representative, or others. The issuance of a written addendum is the only official method whereby interpretation, clarifications, or additional information can be given. It shall be the responsibility of each bidder, prior to submitting the bid, to contact the City of Fort Mitchell to determine if addenda were issued and to make such addenda a part of the bid.

4. Sealed and Marked

Bids shall be sent by mail, shipping company, or hand delivery and shall include one original signed quote in one sealed package, clearly marked on the outside of the package: **STREET SWEEPER BID**. Bids shall be addressed to:

City of Fort Mitchell
City Clerk/Treasurer
2355 Dixie Highway
Fort Mitchell, KY 41017

5. Bid Sheet

All pages of the Bid Sheet must be completed in full. The signer shall have the authority to bind the bidder to the submitted bid. Bidder shall sign the Invitation to Bid in the proper section with a manual signature of an authorized representative and shall enter his/her title and date of the quote. Failure to properly sign or complete the bid form shall be grounds for invalidation. No erasures are permitted. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it. Corrections must be initialed by the person signing the bid.

6. Expenses

All expenses for making bids to the Cities are to be borne by the bidder.

7. Irrevocable Offer

Any bid may be withdrawn up until the date and time set above for opening of the Invitation to Bid. Any quote not so withdrawn shall, upon opening, constitute an irrevocable offer for a minimum period of 90 days to provide to the Cities the goods set forth in the attached specification until one or more of the bids have been duly accepted, or until all bids are rejected.

8. Lowest Evaluated Bid Price

Bids shall be evaluated on the basis of the lowest evaluated bid price. The lowest evaluated bid price shall mean the lowest responsive bid from a responsible bidder to sell goods and/or services of a quality which conforms to the quality of goods and/or services set forth in the attached Specifications, taking into account any Specifications submitted by the bidder which objectively provide a better value to the Cities. A responsible bidder is a bidder who is known to be fit and capable to perform the quotation as made.

9. Responsive Bidder

To be responsive, a bid must conform in all material respects to the requirements set forth in the Invitation to Bid.

10. Forms, Variances, Alternates

Bids must be submitted on the attached Bid Sheet, although additional information may be attached. Bidders must indicate any variances from the requested General Conditions and Specifications; otherwise, bidders must fully comply with the requested General Conditions and Specifications. Alternate bids may or may not be considered at the sole discretion of the Cities.

11. Form of Quotation

All blank spaces must be completed with the appropriate response, typewritten or written in ink. The bidder shall submit executed bid form with other exhibits.

12. Completeness of Quotation

Bidders shall complete all items in one Bid Form. Failure to do so may result in the bid being rejected as not responsive. When quotations on certain items are optional, bidders shall insert the words "no bid" in the space provided for an item for which no quotation is made. Incorporation in the bid of substantial exceptions to the General Conditions or Specifications shall invalidate the bid, if the exceptions amount to a substantial modification of the bid.

13. Quotations

No bidder will be allowed to offer more than one price on each item, even though it may feel that it has two or more types or styles that will meet specifications. Bidders must determine for themselves which to offer.

14. Modification or Withdrawal of Quotation

A modification of a bid already received will be considered only if the modification is received prior to the time announced for opening of bids. All modifications shall be made in writing, executed and submitted in the same form and manner as the original bid. Any bidder may withdraw its bid by giving written notice at the place such bids are to be received and at any time prior to the time announced for opening of the bids.

15. Errors in Bids

Bidders or their authorized representatives are expected to fully inform themselves as to the conditions, requirements, and specifications before submitting bids. Failure to do so will be at the bidder's own risk. Neither law nor regulations make allowance for errors either of omission or commission on the part of bidders. In case of error of extension of prices in the bid, the unit price shall govern.

16. Reservation of Rights

The Cities reserve the right to make awards by item, group of items, all or none or a combination thereof; to reject any and all bids; or to waive any minor irregularity of technicality in bids received.

17. Resident Bidder Preference

Pursuant to KRS 45A.490 to 45A.494, prior to a contract being awarded, a resident bidder of the Commonwealth of Kentucky shall be given a preference against a nonresident bidder registered in any state that gives or requires a preference to bidders from that state. The

preference shall be equal to the preference given or required by the state of the nonresident bidder. The provisions of KRS 45A.490 to 45A.494 are made a part of this Invitation to Bid by reference. Any bidder wishing to claim a preference as a resident bidder must complete the enclosed Resident Bidder Affidavit.

18. Collusion

Each bidder must execute a Non-Collusion Statement as part of its bid.

GENERAL CONDITIONS

1. Payment Terms

Payment shall be made within thirty (30) days of invoice, unless otherwise specified.

2. Right to Audit

The bidder agrees to furnish such supporting detail as may be required by the Cities to support charges or invoices, to make available for audit purposes all records covering charges pertinent to the purchase, and to make appropriate adjustments in the event discrepancies are found.

3. Applicable Laws

All applicable laws, ordinances, and regulations of the Commonwealth of Kentucky, Kenton County, the City of Fort Mitchell, and the City of Edgewood will apply to any resulting agreement, contract, or purchase order.

4. Contract Forms

Any agreement, contract, or Purchase Order resulting from the acceptance of a bid shall be on forms either supplied by or approved by the Cities.

5. Indemnity

After notification of award, the successful bidder shall indemnify and save harmless the Cities, their officials, employees, and agents against all claims, suits, actions, damages, or causes of action arising during the terms of the resulting agreement for any personal injury, loss of life, or damage to property sustained by reason of or as a result of the performance of the services or delivery of goods for which the resulting agreement was entered into, or its agents, employees, invitees, and all other persons, and for and against any orders, judgments, or decrees, which may be entered thereto, and from and against all costs, attorney's fees, expenses and liabilities incurred in or by reason of the defense of any such claim, suit or action, and the investigation thereof.

The successful bidder covenants and agrees to indemnify and save harmless the Cities, their officials, employees, and agents from all cost, expenses, damages, attorney's fees, injury, or loss to which the Cities may be subjected by any person, firm, corporation, or organization by reason of any wrongdoing, misconduct, want, or need of care or skill, negligence or default or breach of contract, guaranty, or warranty, by the successful bidder, its employees, or its agents or assigns.

6. Discounts

Any and all discounts must be incorporated as a reduction in the quote price and not shown separately. The price as shown on the bid shall be the price used in determining award.

7. Descriptive Information

Unless otherwise specifically provided in the Specifications, all equipment, materials, and articles incorporated in the product/work covered by the bid are to be new and of suitable grade for the purpose intended. Unless otherwise specifically provided in the Specifications, reference to any equipment, material, article, or patented process, by trade name, make, or catalog number shall not be construed as limited competition. If the bidder wishes to make a substitution to the specifications, the bidder shall furnish the name of the manufacturer, the model number, and other identifying data and information necessary to aid the Cities in evaluating the substitution, and such substitution shall be subject to approval. Substitutions shall be approved only if determined by the Cities to be equivalent to the specifications. A quote containing a substitution is subject to disqualification if the substitution is not approved. Specified items bid shall be identified by brand name, number, manufacturer, and model.

8. Interpretations

Should any bidder have any questions as to the intent of meaning of any part of this bid, the bidder should contact the contact person for this bid in time to receive a written reply before submitting the bid.

9. "Or Equal" Interpretation

When a particular manufacturer's name or brand is specified along with the words "or equal," bids will be considered on other brands or on the product of other manufacturers. On all such bids the bidder shall indicate clearly the product (brand and model number) on which the bidder is bidding, and shall supply a sample or sufficient data in detail to enable an intelligent comparison to be made with the particular brand or manufacturer specified. Failure to submit the above information may be sufficient grounds for rejection of bid. An item shall be considered equal to the item named or described if it is at least equal in quality, durability, strength, design, and other criteria deemed appropriate; it will perform at least equally the function imposed by the general design for the public work being contracted for or the material being purchase; and it conforms substantially to the detailed requirements for the item in the specifications.

10. Deviations from Specifications

All deviations from the Specifications must be noted in detail by the bidder, in writing, at the time of submittal of bid. The absence of a written list of Specification deviations at the time of submittal of the bid will hold the bidder strictly accountable to the specifications as written. Any deviation from the specifications as written not previously submitted, as

required by the above, will be grounds for rejection of the material and/or equipment when delivered.

11. Quality Guaranty

If any product delivered does not meet applicable specifications, or if the product will not produce the effect that the supplier represents to the Cities, the supplier shall pick up the product from the Cities at no expense to the Cities. The supplier shall refund to the Cities any money which has been paid for same. The supplier will be responsible for attorney's fees in the event the supplier defaults and court action is required.

12. Quality Terms

The Cities reserve the right to reject any or all materials if, in their judgment, the item reflects unsatisfactory workmanship or manufacturing or shipping damages.

13. Authorized Product Representation

The successful bidder, by virtue of submitting the name and specifications of a manufacturer's product, will be required to furnish the named manufacturer's product. By virtue of submission of the stated documents, it will be presumed by the Cities that the bidder is legally authorized to so submit, and the successful bidder will be legally bound to perform according to the documents.

14. Regulations

It shall be the responsibility of each bidder and supplier to assure compliance with any and all federal, state or local rules, regulations or other requirements, as each may apply.

15. Cancellation

It is the intention of the Cities to purchase material from sources of supply that will give prompt and convenient shipment service. Any failure of the supplier to satisfy these requirements shall be reason for termination of the award. Any bid may be rejected in whole or in part for good cause.

16. Royalties and Patents

The successful bidder shall pay all royalties and license fees for equipment or processes in conjunction with the equipment it is furnishing. It shall defend all suits or claims for infringement of any patent right and shall hold the Cities harmless from loss on account thereof and cost and attorney's fees incurred therefore.

17. Equal Employment Opportunity Clause

The City of Fort Mitchell and the City of Edgewood, in accordance with the provision of Title VI of the Civil Rights Act of 1964 (78 Stat. 252) and the Regulations of the Department of Commerce (15 CFR, Part 8) issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority businesses will be afforded full opportunity to submit bids in response to this Invitation to Bid and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

18. Nondiscrimination

The successful bidder agrees to comply with the nondiscrimination provisions of KRS 45.570.

19. Budgetary Constraints

The Cities reserve the right to reduce or increase the quantity, retract any item from the bid, or upon notification, terminate entire agreement without any obligations or penalty based upon availability of funds.

20. Variations in Specifications

Any and all Specifications attached hereto, which vary from the general conditions, shall take precedence.

SPECIFICATIONS

The City of Fort Mitchell and the City of Edgewood are jointly accepting bids for One (1) Diesel Powered 4.0 Cubic Yard Volumetric Capacity Mid-Sized Street Sweeper with the following minimum specifications:

- The unit bid shall be a diesel powered sweeper mounted on a diesel powered truck chassis.
- The unit shall be delivered completely assembled, serviced and ready to operate.
- The bidder shall have a qualified service representative in attendance with the sweeper during startup operation to make any adjustments and give instructions to assure proper operation of the sweeper.
- The unit provided shall be new and of current manufacture, and the model and series must have been in production a minimum of ten (10) years
- All parts not specifically mentioned, which are necessary to provide a complete sweeper, shall be included in the bid and shall conform in strength and quality of material and workmanship to what is normally provided to the trade in general.
- Bidder shall provide a list of five (5) customers currently using the model as bid.
- The sweeper shall be warranted to be free from defective materials and workmanship for a period of twelve (12) months or 1,000 hours of use from date of delivery. The bidder may optionally provide a price for an additional one-year warranty.
- Additional, detailed line item specifications are listed on the Bid Sheet. The bidder shall indicate its compliance with a “YES” or non-compliance with a “NO” for each line item specification. Any space left blank shall be considered non-compliance. Any EXCEPTIONS to the line item specifications must be clearly noted on a separate sheet of paper. No deviations below “minimum” or above “maximum” specifications will be accepted.

It is the intent of these specifications to describe a sweeper in sufficient detail to assure that product reliability, design integrity, technical soundness and sweeping performance is provided.

BID SHEET

Bid for One (1) Diesel Powered 4.0 Cubic Yard Volumetric Capacity Mid-Sized Street Sweeper: \$ _____

Brand and Model: _____

Optional Price for One (1) year of maintenance and repair added beyond the initial One (1) year warranty: \$_____

Please attach a list of five (5) customers currently using the model as bid.

LINE ITEM SPECIFICATIONS

The bidder shall indicate its compliance with a “YES” or non-compliance with a “NO” for each line item specification. Any space left blank shall be considered non-compliance. Any EXCEPTIONS to the line item specifications must be clearly noted on a separate sheet of paper. No deviations below “minimum” or above “maximum” specifications will be accepted.

MANUALS

- _____ The bidder shall supply one sweeper operator’s and one sweeper parts and service manuals on paper and one set on CD with each unit.
- _____ Manufacturer shall have available certifiable training course for complete maintenance and operation of sweeper at the manufacturer’s facility. The training course is provided at no additional charge.
- _____ Manufacturer must have scheduled a minimum of two (2) training courses per year for convenience of customers scheduling. The course shall be specific to the model bid.
- _____ Bidder shall provide operator instruction/safety/maintenance procedures on DVD with the unit.

PAINT COLOR

- _____ The entire unit shall be painted with manufacturer’s standard white paint applied over a suitable primer.
- _____ Pick-up head, gutter brooms and truck frame shall be painted black.

UNIT HEIGHT/CLEARANCE

- _____ Maximum height of unit shall not exceed ten feet, zero inches (10'0") for indoor storage.

POWER UNIT

- _____ The sweeper power unit shall be a turbocharged diesel fueled, Final Tier 4 liquid cooled industrial engine. Piston displacement shall not be less than 148.5 cubic inch

developing not less than 56 HP @ 2100 RPM and 140 ft. /lbs. torque @ 2100 RPM.
Engine shall be 4 cycle, 3.43 inch bore and 4.03 inch stroke.

- _____ Cylinder construction shall be dry sleeve type.
- _____ Spin-on replacement type oil filter.
- _____ 12 volt ignition, electric starter and minimum 40 amp alternator with charge indicator gauge shown on the touchscreen display mounted on control console in cab.
- _____ An engine ECU shall have a multi-point engine protection system that will derate/shutdown when an engine problem is detected such as high coolant temperature, low coolant level, or low oil pressure.
- _____ Unit shall share batteries with chassis engine.
- _____ Unit shall share fuel with chassis engine.
- _____ Unit shall have a heavy-duty dry type air cleaner with replaceable Donaldson PowerCore® element, safety element, and integral pre-cleaner.
- _____ To keep overall height to a minimum when dumping, access panels shall not be attached to the hopper weldment.
- _____ Power unit must be easily accessible without starting the engine or the use of auxiliary hydraulics.
- _____ A frame mounted fuel/water separator with water in fuel notification on in-cab display shall be furnished.

DUST SEPARATOR

- _____ Separation of the dirt from the air stream shall be accomplished by means of an external cylindrical multi-pass centrifugal dust separator with a minimum size of 20" diameter and 22.5" width. The separator shall be designed so that it will not plug with normally encountered debris.
- _____ The separator shall be lined with a bolt-in, replaceable, wear resistant rubber liner for long life.
- _____ The dust separator shall have a minimum 4" diameter port allowing inspection and cleaning of the interior, with an expandable rubber plug and a 25" long extension handle for access.
- _____ The separator shall incorporate a self-cleaning compartment to trap fine particulates and prevent re-entry into the air stream.
- _____ Dust separator shall be constructed of industrial grade, non-magnetic low carbon, high chrome stainless steel.

HOPPER

- _____ Hopper shall be constructed of full seam welded stainless steel plate.
- _____ Hopper size to be a minimum four (4.0) cubic yard volumetric measurement with an operating load capacity of not less than three (3) cubic yards.
- _____ Dumping shall be accomplished by means of hydraulically actuated piggyback cylinders causing hopper to tilt up expelling the load behind the rear wheels. Dump cylinders shall not protrude below sweeper frame.
- _____ Dump angle shall be a minimum of 90 degrees.
- _____ The hopper shall have a minimum dumping height of 60".

- _____ Hopper door shall have an opening dimension of 77-1/4" x 70" and be opened/closed by means of two hydraulic cylinders.
- _____ For easy access and to insure airtight hopper seals, the hopper dump door shall be hydraulically actuated.
- _____ Hopper door shall be held in the closed position by means of a lock valve located in the hydraulic dump circuit.
- _____ Hopper shall be maintained airtight through use of rubber seals on all doors and openings.
- _____ Hopper shall contain a chute area with a replaceable deflector.
- _____ All hopper doors shall be fabricated from stainless steel plate to prevent loss of airtight seals due to warping, cracking, or premature wear.
- _____ Hydraulic cylinder movement shall be controlled with the use of an electric toggle switch located on the exterior of sweeper behind truck cab and in front of the blower housing.
- _____ Hopper shall have a safety prop with manually installed latching pin.
- _____ Roof access clean-out doors prohibited due to potential safety hazards.
- _____ One work light shall be mounted at the rear of the hopper.
- _____ A rubber hopper drip edge extension shall be provided to extend horizontal reach by 7" for dumping.
- _____ A dual stainless steel screen with total area of not less than 3,200 square inches shall be provided.
- _____ Screens shall lift with the dump door to allow easy access for cleaning.
- _____ Abrasion Protection Package shall include a suction inlet liner; deflector plate liner; separator liner; transition liner; pressure wear pads; suction nozzle liner; heavy duty pressure and suction hoses.
- _____ Two rear rubber bumper pads shall be provided to prevent damage to the rear of the sweeper during dumping.
- _____ Hopper deluge system with high volume nozzle which attaches to a fire hydrant to flush the hopper shall be furnished and shall include quick disconnect fittings on nozzle and filler hose.
- _____ Hopper Drain System, made of non-magnetic stainless steel, shall be mounted on lower right quarter of hopper wall panel to allow sweeper to operate in wet conditions by draining water picked up during sweeper operations.
- _____ For maximum corrosion resistance, all interior and exterior hopper sheet surfaces to be fabricated with an industrial grade, **non-magnetic** low carbon, high chrome stainless steel. **The hopper, hopper door, inspection door, skimmer hood and screen assemblies are made of non-magnetic stainless steel and included.**

HYDRAULIC SYSTEM

- _____ The hydraulic system shall be adequate for use within the design requirements of the sweeper. The system shall include a minimum 13.5 gallon reservoir, sight gauge, temperature gauge, 80 mesh suction strainer, spin-on replaceable full flow oil filter, restriction indicator, hydraulic cylinders, gutter broom drive motors, control valves, relief valves, oil cooler, hydraulic hoses and standard fittings.
- _____ Mobil DTE 25 hydraulic oil shall be provided for extended service life.
- _____ The hydraulic pump shall be gear driven by the auxiliary engine.

- _____ System pressures shall consist of 1500 PSI maximum for pick-up head and dump door; 2500 PSI maximum for gutter broom(s).
- _____ Hydraulic control valves must be easily accessible for service without raising the hopper or enclosures.
- _____ An auxiliary hydraulic system shall be furnished which electrically operates the hydraulic system without running the auxiliary engine to raise/lower the gutter broom(s), pick-up head and open/close the dump door.

BLOWER

- _____ Heavy duty, wear resistant, high strength cast aluminum alloy turbine type open face blower computer balanced within 4 grams shall be provided to create air pressure and suction.
- _____ Blower wheel shall be covered with wear-resistant rubber for long life.
- _____ Blower shall be mounted on self-aligning anti-friction bearings.
- _____ Blower shall be driven from PTO off auxiliary engine by heavy duty power belt which shall be adjustable for tension.
- _____ Blower housing shall be lined with a bolt-in wear resistant, replaceable rubber liner for long life.
- _____ Blower not to exceed 2700 RPM to insure smooth efficient performance.
- _____ Access to blower housing must be accomplished without raising hopper.
- _____ Blower housing shall be fabricated with an industrial grade, non-magnetic low carbon, high chrome stainless steel.

PICK-UP HEAD

- _____ A spring balanced all steel fabricated pick-up head with maximum length and width of 78" x 30" I.D. shall be provided.
- _____ The pick-up head shall have a separate upper and lower chamber where pressurized air is blasted from upper chamber through an elongated blast orifice to street surface.
- _____ Blast orifice flange shall be of bolt-on design so that flange is easily replaced and shall have slots so that blast orifice gap is easily adjusted without removing pick-up head from sweeper.
- _____ Pick-up head shall have a 12" diameter (minimum) bolt on pressure inlet ring with turning vanes located on left side of pick-up head.
- _____ A 12" diameter (minimum) heavy duty pressure hose attached to the blower housing shall be provided.
- _____ A 12" diameter (minimum) heavy duty suction hose, attached to a quick disconnect transition at the hopper shall extend down to the right side of the pick-up head and shall be attached to the pick-up head suction nozzle ring which shall be constructed of 10 gauge steel.
- _____ Pick-up head shall be equipped with 2" wide adjustable side mounted integral alloy steel and carbide runners for maximum pick up ability and long life. Skid runners to be warranted for 2 years/2,000 hours prorated.

- _____ Side Skid plates shall have a minimum slotted height adjustments of 4" at the blast orifice.
- _____ Pick-up head shall be raised and lowered hydraulically by a single switch on the control panel.
- _____ Pressure inlet ring shall be equipped with an adjustable pressure relief for optimum leaf and light debris sweeping; pressure relief shall be controlled from inside cab.
- _____ Reverse pick-up head system shall be furnished to allow unit to back up without damage to the pick-up head.
- _____ Hydraulic pick-up head front curtain lifter shall be provided to give the pick-up head the ability to sweep a large volume of light debris such as leaves, grass, paper, etc. without causing excessive debris accumulation at the pick-up head inlet. It shall be hydraulically controlled with a switch within the cab of the truck.
- _____ 3 inch skid bumper extensions shall be provided.
- _____ Removable Front Curtain Set shall be provided for quick replacement of worn-out front pick-up head curtains.

GUTTER BROOM

- _____ Twin gutter brooms shall be 36 inch diameter (minimum), steel vertical digger type for removing debris from gutter area. The gutter broom bristles shall be steel and 12" in length for maximum wear life.
- _____ 10.5" inch parabolic mirror(s) and floodlight(s) shall be provided.
- _____ Gutter broom(s) shall be hydraulic motor driven and shall be positioned laterally and vertically by one hydraulic cylinder.
- _____ Gutter broom(s) down pressure shall be automatically adjusted to load by a pressure sensing sequence valve in line with gutter brooms torque motor.
- _____ Gutter broom(s) shall have adjustment for bristle contact pattern and wear.
- _____ Gutter broom(s) shall have lateral flexibility to swing rearward 15" when encountering the impact of an immovable object thus avoiding damage to the broom assembly.
- _____ Gutter broom(s) shall have a spring adjustment to allow downward compensation for bristle wear and shall be free floating to follow street contour.
- _____ Gutter broom(s) shall be held in the up and transit position by use of an electric lock valve attachment. Upward motion of gutter broom(s) shall be regulated by an adjustable flow control valve.
- _____ Gutter broom(s) shall be controlled from inside the cab by a single switch.
- _____ Twin gutter brooms shall additionally incorporate a hydraulically actuated tilt capability of 27 degrees, remotely controlled from the operator's seat to allow instant adjustment for debris removal from deep gutters (such as those resulting from multiple overlays of blacktop).
- _____ Twin gutter brooms – Drop Down feature allows gutter brooms to drop down for road surface agitation in front of the pick-up head.

DUST CONTROL WATER SYSTEM

- _____ Water tank shall be 150 gallons total capacity, constructed of recyclable, translucent polyethylene for strength and ability to view water level at all times. Water tank shall be 100% rustproof and shall be of bolt-in design for easy removal.

- _____ Water from tank to be filtered by 80 mesh cleanable filter located between tank and water pump.
- _____ A belt driven Cat 290 piston water pump delivering up to 3.5 GPM with a 55 PSI system relief pressure and with an electronic solid state liquid level sensor to automatically shut off pump and trigger an audible alarm, and low water indicator and message on the in-cab touchscreen display when water is depleted.
- _____ Hi/low pressure wash down system with self-contained water supply; 25' high pressure, low volume wash down hose, a belt driven Cat 290 piston water pump (delivering up to 3.5 GPM with a 1000 PSI working pressure); a wand with trigger control and two interchangeable lance lengths of 36" shall be furnished.
- _____ Electric solenoid water control valves shall be cab controlled. Spray system shall include spray nozzles to be located as follows: minimum of 2 for gutter broom and 1 inside hopper. Water nozzles to be located near the gutter broom(s) and top of hopper suction inlet throat for easy inspection and superior dust control.
- _____ Water tank shall have anti-siphon/anti-pressure filler neck with air gap.
- _____ Flexible 20-foot (minimum) long water fill hose with 2-1/2" quick disconnect coupling for filling water reservoir shall be provided. Water fill hose shall include a stainless 100 mesh cleanable filter.
- _____ Flexible 5/8" diameter water fill hose with garden hose connection with straining screen for filling water reservoir shall be provided.
- _____ Air Purge system to facilitate purging dust control system during freezing conditions.
- _____ Additional left gutter broom water nozzle shall be provided with a separate control switch.
- _____ Additional right gutter broom water nozzle shall be provided with a separate control switch.
- _____ High Output Water System: Additional nozzles strategically located to control extreme dust.

FRONT STORAGE COMPARTMENT

- _____ Sweeper shall be equipped with a combination storage and sound suppression compartment for ample storage of tools, supplies, and accessories.
- _____ Compartment shall be independent of the hopper weldment and easily opened without the use of auxiliary hydraulics or starting the auxiliary engine.
- _____ The storage compartment shall be divided into multiple compartments with a total capacity of not less than 55 cubic feet.
- _____ Contents of the compartment to be easily accessible by lockable, gas shock-assisted gull-wing doors on the left and right side.
- _____ Gull-wing doors are to be fabricated of high density composite materials for strength and durability.

REAR STORAGE COMPARTMENTS

- _____ Sweeper shall have two (2) rear storage compartments with one (1) located on each side of the hopper.
- _____ Storage compartments shall be fabricated of polyethylene, have a steel frame, and have a total capacity of not less than 26.6 cubic feet.

- _____ Compartments shall be independent of rear bumper and rear fenders for ease of maintenance.
- _____ Lockable compartment doors shall be mounted on the side of the sweeper and constructed of aluminum.
- _____ Storage compartments shall be fully enclosed and independent.

SAFETY WARNING DEVICES

- _____ Unit shall have two rear mounted LED amber alternating flashing warning lights.
- _____ Unit shall have a backup alarm that sounds when chassis is placed into reverse gear.

OPERATING CONTROLS

- _____ The sweeper electronic control platform shall be CAN controlled utilizing a multiplex control system.
- _____ The multiplex control system shall be equipped with a multiplex module with diagnostic LED indicators for all Inputs and Outputs as well as network and power LEDs to assist in troubleshooting.
- _____ The multiplex module shall be equipped with overcurrent protection for all outputs.
- _____ All module Inputs and Outputs as well as network and power status shall be accessible through the in-cab display.
- _____ All operating controls for sweeper shall be mounted inside truck cab and readily accessible to the operator.
- _____ All main sweeping functions shall be multiplexed with LED diagnostics and integral solid-state circuit protection to reduce overall wiring and enhance operator feedback.
- _____ In-cab controls shall consist of, but are not limited to, gutter brooms, pick-up head, engine throttle, water system, water system nozzles, dump door, and work lights.
- _____ Dump control includes a single weatherproof toggle switch located on the exterior of sweeper just between the truck cab and blower housing.
- _____ Auxiliary engine controls shall be mounted on control console.
- _____ A 5.7 inch viewable (minimum) multi-function, high resolution, LCD, color touchscreen display shall be pedestal mounted to display gauges consisting of, but not limited to engine RPM, engine oil pressure, engine temperature, battery voltage, and instantaneous fuel rate.
- _____ For sweeper on board diagnostics (OBD), the in-cab display shall provide detailed text descriptions of sweeper faults as well as provide input/output status and stored output faults.
- _____ For auxiliary engine OBD, the in-cab display shall provide a detailed message about auxiliary engine faults providing SPN, FMI, and a text description of the fault at minimum.
- _____ The display shall provide a visual indicator icon for the following: Pick-up head down, dust suppression water pump, low water, water system winterization.
- _____ The in-cab sweeper display shall incorporate resettable and non-resettable hour meters for the auxiliary engine; left and right gutter broom(s); pick-up head; water pump; and blower for collecting data about sweeping route performance and maintenance.

- _____ The in-cab sweeper display shall incorporate resettable sweeper and auxiliary engine service timers, which will trigger service reminders for engine oil, engine air filter, fuel filters, hydraulic filter, hydraulic oil.
- _____ The in-cab display shall include a minimum five (5) User-defined custom reminders.
- _____ A minimum of three (3) custom reminders shall be timed by hours.
- _____ A minimum of two (2) custom reminders shall be timed by days.
- _____ The in-cab display shall include a sweeper odometer that is active when the pick-up head is down and the auxiliary engine is above idle.
- _____ The sweeper odometer shall include a non-resettable odometer and resettable odometer, hour meter, and average sweeping speed.
- _____ The in-cab display shall log the following events by date, time, event title, and engine hours: hour meters resets, custom reminders resets, service reminders, service hour meter reset, overspeed events, hydraulic oil alerts, engine faults, sweeper output faults, sweeper odometer resets, winterization and de-winterization events, and fuel usage statistics resets.
- _____ Overspeed warning system shall be equipped to alert the operator when sweeping at an excessive speed and can be adjusted from 5–20 mph with a PIN code.
- _____ The in-cab display shall include fuel usage statistics for the auxiliary engine which displays trip fuel usage, fuel trip hours, average fuel economy, and instantaneous fuel rate.
- _____ The in-cab display shall include an on-screen guide for winterization procedures specific to the dust control system equipment. The display shall tag the system as winterized once the guide has been completed and will remove the winterized tag once the system senses water.
- _____ Audible alarms and visual indicators shall include, but are not limited to indications of the following: low dust control water, exceeding maximum recommended sweeping speed, auxiliary engine fault codes and derates such as low coolant or high engine temperature, and sweeper output faults such as low voltage.
- _____ All main electrical systems, i.e. ignition, lights, hydraulic, etc. shall be separately fused to isolate electrical problems to fused area and speed service.
- _____ All external wiring, harnesses and terminations shall be of a sealed, weather-tight design utilizing heat-shrinkable components. Additionally, where feasible, all connectors shall utilize solid, cold-formed, nickel-plated copper alloy contacts with gas-tight crimps (Deutsch).
- _____ Auto Sweep Interrupt (ASI) shall be furnished. It is a system designed to interrupt sweeping functions when any of several parameters are met. The following sequence of events will occur when the transmission gear selector is placed into reverse, when sweeping at an excessive speed, or when the ASI Reset Switch is engaged: (1) Auxiliary engine is idled and gutter broom(s) are stopped (2) Dust control system is turned off (3) Left gutter broom (if applicable) is raised (4) Right gutter broom (if applicable) is raised (5) Pick-up head is raised. The “ASI RESET” switch will reposition all functions to prior setting(s) and can be used as a one button start/stop switch during sweeping to interrupt/resume all sweeping functions.

- _____ ASI Overspeed Interrupt can be adjusted with PIN code. From 5–20 mph the operator will receive a warning and at 8–25 mph the Auto Sweep Interrupt will engage depending on ranges set.
- _____ In-cab dump switch shall be located on the control panel to activate dump operation from inside cab.

ADDITIONAL EQUIPMENT

- _____ Traffic directing light – Whelen TACF85LH, SAE Class 1, 44 inches long.
- _____ Camera/Monitor System: Alliance Wireless Technology (AWTI), slim line series with 7" color monitor mounted in cab with one rear view camera, and one pick-up head camera.
- _____ Incandescent work lights shall be provided pointing to the left and right gutter broom(s) and rear of the sweeper.

CHASSIS

- _____ (Model Year 2019 or Newer Isuzu NQR)

GENERAL

- _____ Chassis/cab shall be a low cab forward (cabover) design with a tilt forward cab. Frame to be 44,000 PSI, section modulus 7.20 cubic inches (316,800 lb. ft./in. RBM). Gross vehicle weight rating to be not less than 17,950 lbs. Curb weight with cab, fuel, water, oil and tires shall be approximately 7,058 lbs. Standard truck cab enclosed and equipped with safety glass all around, adjustable driver and stationary two man passenger seat with safety seat belts. Rear bumper shall be of wrap-around design with recessed lights and rubber bumper guards.

WARRANTY

- _____ Base vehicle coverage is 36 months/unlimited miles.
- _____ Engine (including all gear driven accessories) coverage is 36 months/unlimited mileage.
- _____ Transmission coverage is 36 months/unlimited miles.
- _____ Frame coverage is 100% for 36 months/unlimited miles and 50% for 36–60 months/unlimited miles.
- _____ Emissions coverage is 60 months/100,000 miles.
- _____ Corrosion (rust-through) coverage is 48 months/unlimited miles.

WHEELBASE

- _____ Chassis shall have a maximum wheelbase of 150".

AXLES

- _____ Front axle to be minimum of 6,830 lbs. with suspension capacity of 8,440 lbs. and stabilizer bar.
- _____ Rear axle shall be 14,550 lbs. single speed with a ratio of 5.125 in direct drive, suspension to be minimum of 14,550 lbs.
- _____ Front and rear shock absorbers and front stabilizer bar.

STEERING

- _____ Dual operator controlled integral hydraulic power steering with left side cruise control, left gauge package, and adjustable high back bucket seat on the right-hand side.
- _____ Diameter of steering wheel shall be minimum 16 inches.

BRAKES

- _____ Service brakes to be dual circuit, power assisted hydraulic with antilock brake system.
- _____ Front brakes shall be disc.
- _____ Rear brakes shall be self-adjust drum.
- _____ Mechanical, cable actuated, internal expanding drum type, transmission mounted parking brake.

CAB

- _____ Gauges shall consist of: speedometer, odometer, temperature gauge, indicator warning lights, fuel gauge, engine hour meter, and trip meter.
- _____ Warning lights shall be supplied for check engine, low fuel, brake system warning, low coolant and oil level, battery discharge, and engine oil pressure.
- _____ Chassis shall be equipped with air conditioner, fresh air heater, defroster, two speed electric windshield wipers with electric operated washers, 12V receptacle, two (2) remote controlled heated electric powered rearview mirrors, two (2) 12" diameter parabolic mirror, dual sun visors, AM/FM stereo radio with CD player and power windows and door locks.
- _____ Fire Extinguisher shall be refillable, dry chemical unit, DOT approved, cab mounted.
- _____ Light bar – LED, amber, SAE Class 1, 55 inches long, cab mounted with 12 lights total – 2 on the sides and 8 on the front.

ELECTRICAL

- _____ Shall consist of two multiple beam headlights with dash beam indicator, daytime running lights, instrument panel, taillights, stop lights, front and rear turn signals, and self-canceling signal switch, equipped for four way flashing.
- _____ Taillights, stop lights and signal lamps may be in combination.
- _____ Shall have two 750 CCA batteries.
- _____ Shall have a 140 amp alternator.
- _____ LED stop/turn/tail/clearance/side markers.

ENGINE/EXHAUST

- _____ Engine shall be heavy duty 4-cylinder turbocharged diesel with a minimum 317 cubic inch displacement (5.19L); 215 gross HP @ 2,500 RPM; 252 lbs. ft. gross torque @ 1,850 RPM.
- _____ Dry element air cleaner shall be supplied.
- _____ A 4.23 gallon, rear mounted DEF tank shall supply diesel exhaust fluid to Selective Catalytic Reduction (SCR) system.
- _____ Frame mounted aftertreatment device behind cab. Includes single vertical exhaust pipe.

FUEL

_____ A 30 gallon tank mounted in frame rail behind rear axle shall supply fuel to both engines. Frame mounted heated fuel/water separator.

TIRES AND WHEELS

_____ Heavy duty first line quality tubeless radial tires to be minimum 225/70R-19.5 C/R F rating with duals in rear for adequately carrying full load of sweeper and maximum stability.

_____ Wheels to be 19.5x6.0 6-hole disc.

TRANSMISSION

_____ 6-speed automatic.

_____ Spin on transmission oil filter shall be provided.

Non-Collusive Bid Statement: The undersigned bidder, having fully informed himself regarding the accuracy of the statements made herein, certifies that: (1) The bid has been arrived at by the bidder independently and has been submitted without collusion with, and without any agreement, understanding, or planned common course of action with any other vendor of materials, supplies, equipment, or services described in the bid, designed to limit independent bidding or competition, and (2) The contents of the bid have not been communicated by the bidder or its employees or agents to any person not an employee or agent of the bidder or its surety on any bond furnished with the bid, and will not be communicated by any such person prior to the official opening of the bid.

Signature of Authorized Official

Name and Title (printed)

Legal Name of Business

Address

Address

Telephone Number

Date

Affix seal below if bid is by corporation.

RESIDENT BIDDER AFFIDAVIT

Required for bidders claiming Kentucky resident bidder status.

The bidder or offeror hereby swears and affirms under penalty of perjury that, in accordance with KRS 45A.494(2), the entity bidding is an individual, partnership, association, corporation, or other business entity that, on the date the contract is first advertised or announced as available for bidding:

1. Is authorized to transact business in the Commonwealth;
2. Has for one year prior to and through the date of advertisement:
 - a. Filed Kentucky corporate income taxes;
 - b. Made payments to the Kentucky unemployment insurance fund established in KRS 341.49; and
 - c. Maintained a Kentucky Workers' Compensation policy in effect.

The City of Fort Mitchell and the City of Edgewood reserve the right to request documentation supporting a bidder's claim of resident bidder status. Failure to provide such documentation upon request shall result in disqualification of the bidder or contract termination.

_____	_____
Signature	Printed Name
_____	_____
Title	Date

Company Name _____

Address _____

STATE OF _____)
) :ss
 COUNTY OF _____)

Acknowledged, subscribed and sworn to before me this the _____ day of _____, 20____, by _____ .

 Notary Public
 My Commission Expires