



## **Request For Bid (RFB)**

**Boone County Purchasing**  
601 E. Walnut, 2nd Floor  
Columbia, MO 65201

**Marlene Ridgway, Buyer**  
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### **Bid Data**

Bid Number: 74-26DEC01  
Commodity Title: Tandem Axle 6x4 Dump Truck

### **DIRECT BID FORMAT OR SUBMISSION QUESTIONS TO THE PURCHASING DEPARTMENT**

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### **Bid Submission Address and Deadline**

Day / Date: WEDNESDAY –DECEMBER 26, 2001  
Time: 1:25 P.M. (Bids received after this time will be returned unopened)  
Location / Mail Address: **Boone County Purchasing Department  
Boone County Johnson Building  
601 E. Walnut, 2<sup>nd</sup> Floor  
Columbia, MO 65201**

Directions: The Johnson Building is located on the Northeast corner at 6<sup>th</sup> St. and Walnut St. Enter the building from the East Side. Wheel chair accessible entrance is available on the West side of the building.

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### **Bid Opening**

Day / Date: WEDNESDAY – DECEMBER 26, 2001  
Time: 1:30 P.M.  
Location / Address: **Boone County Johnson Building Conference Room  
601 E. Walnut, 2<sup>nd</sup> Floor  
Columbia, MO 65201**

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### **Bid Contents**

- 1.0: **Introduction and General Terms and Conditions of Bidding**
- 2.0: **Primary Specifications**
- 3.0: **Response Presentation and Review**
- 4.0: **Response Form  
Standard Terms and Conditions**

**1. Introduction and General Conditions of Bidding**

- 1.1. **INVITATION** - The County of Boone, through its Purchasing Department, invites responses which offer to provide the goods and/or services identified on the title page and described in greater detail in Section 2.
- 1.2. **DEFINITIONS**
- 1.2.1. **County** - This term refers to the County of Boone, a duly organized public entity. It may also be used as a pronoun for various subsets of the County organization, including, as the context will indicate:  
*Purchasing* - The Purchasing Department, including its Purchasing Director and staff.  
*Department/s or Office/s* - The County Department/s or Office/s for which this Bid is prepared, and which will be the end user/s of the goods and/or services sought.  
*Designee* - The County employee/s assigned as your primary contact/s for interaction regarding Contract performance.
- 1.2.2. **Bidder / Contractor / Supplier** - These terms refer generally to businesses having some sort of relationship to or with us. The term may apply differently to different classes of entities, as the context will indicate.  
*Bidder* - Any business entity submitting a response to this Bid. Suppliers which may be invited to respond or which express interest in this bid, but which do not submit a response, have no obligations with respect to the bid requirements.  
*Contractor* - The Bidder whose response to this bid is found by Purchasing to meet the best interests of the County. The Contractor will be selected for award, and will enter into a Contract for provision of the goods and/or services described in the Bid.  
*Supplier* - All business/s entities which may provide the subject goods and/or services.
- 1.2.3. **Bid** - This entire document, including attachments. A Bid may be used to solicit various kinds of information. The kind of information this Bid seeks is indicated by the title appearing at the top of the first page. An "Invitation For Quote" is used when the need is well defined. An "Invitation For Proposal" is used when the County will consider solutions which may vary significantly from each other or from the County's initial expectations.
- 1.2.4. **Response** - The written, sealed document submitted according to the Bid instructions.
- 1.3. **BID CLARIFICATION** - Questions regarding this Bid should be directed in writing, preferably by fax, to the Purchasing Department. Answers, citing the question asked but not identifying the questioner, will be distributed simultaneously to all known prospective Bidders. Note: written requirements in the Bid or its Amendments are binding, but any oral communications between County and Bidder are not.
- 1.3.1. **Bidder Responsibility** - The Bidder is expected to be thoroughly familiar with all specifications and requirements of this Bid. Bidders failure or omission to examine any relevant form, article, site or document will not relieve them from any obligation regarding this Bid. By submitting a Response, Bidder is presumed to concur with all terms, conditions and specifications of this Bid.
- 1.3.2. **Bid Amendment** - If it becomes evident that this Bid must be amended, the Purchasing Department will issue a formal written Amendment to all known prospective Bidders. If necessary, a new due date will be established.
- 1.4. **AWARD** - Award will be made to the Bidder/s whose offer/s provide the greatest value to the County from the standpoint of suitability to purpose, quality, service, previous experience, price, lifecycle cost, ability to deliver, or for any other reason deemed by Purchasing to be in the best interest of the County. Thus, the result will not be determined by price alone. The County will be seeking the least costly outcome that meets the County needs as interpreted by the County.
- 1.5. **CONTRACT EXECUTION** - This Bid and the Contractor's Response will be made part of any resultant Contract and will be incorporated in the Contract as set forth, verbatim.
- 1.5.1. **Precedence** - In the event of contradictions or conflicts between the provisions of the documents comprising this Contract, they will be resolved by giving precedence in the following order:  
1) the provisions of the Contract (as it may be amended);  
2) the provisions of the Bid;  
3) the provisions of the Bidder's Response.
- 1.6. **CONTRACT PERIOD** - Any Term and Supply Contract resulting from this Bid will have an initial term of one (1) year, but may be automatically renewed for an additional two (2) years unless canceled by either party commencing with execution of Contract (or on another mutually agreeable start date.)
- 1.7. **COMPLIANCE WITH STANDARD TERMS AND CONDITIONS** - Bidder agrees to be bound by the County's standard "boilerplate" terms and conditions for Contracts, a sample of which is attached to this Bid.

**2. Primary Specifications**

- 2.1. **ITEM TO BE PROVIDED** - A Year 2002 Tandem Axle 6x4 Dump Truck with dump body, automatic snow and ice control system, GPS system, v-box material spreader with pre-wetting system, and 10-foot reversible hydraulically operated snowplow.
- 2.1.1. **QUANTITY – One (3) Note: Vendor will be bidding on three (3) complete systems (truck, spreader and snowplow).**
- 2.2. **GENERAL REQUIREMENTS**
- 2.2.1. Unit(s) shall consist of a one-person operated control and loading system and shall be designed and constructed for performance, durability, dependability and safety.
- 2.2.2. Equipment shall be bid as a complete package and prepared for use with turnkey operation prior to delivery. Equipment shall be new, current year manufacture of latest design and production that conforms in strength, quality of material and workmanship equal to equipment that is usually provided to the trade in general.
- 2.2.3. All items bid will include installation.
- 2.2.4. The unit(s) shall be constructed for easy removal of the v-box material spreader from the truck.
- 2.2.5. Control system electronic/electrical cables and hydraulic line disconnects are required.
- 2.2.6. The automatic snow and ice control system shall be a ground speed controlled system.
- 2.2.7. The unit(s) shall include installation of a GPS-based fleet management system.
- 2.2.8. The unit(s) shall include all inspection coupons, certifications, or warranty identification cards furnished in accordance with standard warranty policies.
- 2.3. **TANDEM AXLE DUMP TRUCK MINIMUM SPECIFICATIONS**
- 2.3.1. **Wheelbase:** selected 195 inch; 55-inch axle to frame, and 120-inch cab to axle length.
- 2.3.4. **Frame Rails:** Heat treated Alloy Steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312"; 456.0" Maximum OAL.  
**Frame Reinforcement:** Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; 456.0" Maximum OAL.  
**Frame Extension:** Front Integral; 20" In Front of Grille
- NOTE: Frame will exceed 2,500,000 RBM all the way through the truck frame. If dealer cannot supply 2,500,00 RBM all the way through, it is the responsibility of the bidder to submit in written form with their response, a guarantee of the frame breaking for as long as Boone County owns the truck.**
- 2.3.5. **Tow Hook:** front, two (2), frame mounted
- 2.3.6. **Bumper:** front; full width, aerodynamic, steel; 0.142" material thickness minimum; powder coated.
- 2.3.7. **Front Axle:** I-Beam type, 14,000 lb. minimum capacity.
- 2.3.8. **Front Shocks:** heavy-duty.
- 2.3.9. **Front Springs:** parabolic, taper leaf; 14,000 lb. minimum capacity.
- 2.3.10. **Front Spring Pins:** pins and rubber bushings, maintenance-free.
- 2.3.11. **Brake System:** Full vehicle wheel control system (4-channel). Rockwell air brakes, anti-locking (ABS), Q-plus linings; dual service brake system for straight truck applications. Air dryer with heater (Bendix AD-9), standard location. Gauge: air pressure, dual. Dust shields, front and rear brakes. Air compressor air supply line through air cleaner. Brake lines color-coded nylon. Haldex automatic slack adjusters in front and rear. Drain valve: twist type. Inversion valve with integral check valve. Front brakes: air cam, S-cam, 16.5.0" x 5.0"; includes 20 sq. in. MGM long stroke brake chambers. Rear brakes: air cam, S-cam, 16.5" x 7.0"; includes MGM TR3030 long stroke brake chambers and heavy-duty spring actuated parking brake. Air compressor (Bendix Tu-Flo 550) 13.2 CFM minimum. Parking brake valve shall have color-coded knob located on instrument panel. Air pressure gauge shall have Air 1 and Air 2 Gauges located in instrument cluster.
- 2.3.12. **Steering:** steering gear (Sheppard M-100); power steering able to handle axle ratios; includes 2-spoke steering wheel, 18" minimum diameter and tilt steering column.
- 2.3.13. **Exhaust:** Single, horizontal muffler, vertical tail pipe, aluminized steel; frame mounted right side; includes tail pipe guard.

**2. Primary Specifications (cont.)**

- 2.3.14. **Electrical System(s):** 12-Volt Standard equipment, heavy-duty wiring to rear of frame with stop, tail, turn and marker lights circuits, ignition controlled auxiliary feed and ground; chassis wiring color coded throughout; turn signal switch with hazard flasher overrides brake (to be done with programming system controller); includes extra heavy duty electronic turn signal flasher system(s) that will be capable of signal and hazard flashing up to 20 separate lamps with turn signal switch self-canceling with integral hazard switch and data link connector in cab for vehicle programming and diagnostics.  
Headlight dimmer switch integral with turn signal switch.  
Five (5) amber LED roof marker lights flush mounted on cab.  
Windshield wiper switch 2-speed integral with turn signal switch with mist wiper/washer and intermittent wiper feature. Windshield wipers single motor, electric, cowl mounted.  
Fuses and breakers: SAE blade type.  
Auxiliary harness for auxiliary front headlights and turn signals for front snowplow application; includes lighted toggle or rocker switch and wiring for snowplow lights.  
Cigar type power source receptacle.  
Headlights: two (2) sealed beam. Jump-start stud.  
Parking lights integral with front turn signals and rear taillights.  
Stop, turn and dual rear combination with reflector backup lights.  
Starter switch electric key operated.  
Turn signals front flush mounted with reflectors and auxiliary side turn signals.  
In-cab electrical junction box mounted on rear of cab wall.  
Data link connector in cab for vehicle programming and diagnostics.  
Exterior cab mounted pedestal type adjustable drivers side work light; includes lighted toggle or rocker switch on instrument panel and wiring.  
Electrical systems shall include heavy-duty wiring body builder's connections in back of cab at frame; includes sealed electrical wiring connectors for tail/amber turn, marker, backup, accessory power, ground and sealed connector for stop/turn.  
Circuit breakers with manual reset (Main Panel).  
Factory installed multi-plex low resistance wiring to prevent current wave influx and magnetic resonance interference with auxiliary mounted computerized snow and ice control and GPS management system in cab.  
Shall include separate auxiliary factory installed low washer fluid warning indicator/alarm, and dash mounted electrical circuits for heated mirrors and auxiliary work light; includes, wiring, switch and all necessary mounting hardware.  
Tail light wiring modified to include separate wiring for standard left and right taillights with 8' of extra cable and separate wiring for left and right body mounted taillights with 8' of extra cable.  
Electrical disconnect front harness for guidepost lights with connectors located at headlight connection.  
Jump-start stud remote mounted.  
Power source, terminal type 2-post.
- 2.3.15. **Horn, Air:** electric single trumpet, air solenoid operated.
- 2.3.16. **Alternator:** (Delco 22-SI), 12-volt, 145 amp capacity minimum.
- 2.3.17. **Battery System:** maintenance free, two (2) Group 31, 1300 CCA minimum total. Battery box, steel and mounted on drivers side under cab with steps.
- 2.3.18. **Radio System:** AM/FM stereo with weather band, electronic tuning and clock; includes two (2) dual cone speakers.
- 2.3.19. **Front End:** Fiberglass, tilting, includes easy tilt hood and stationary grille.
- 2.3.20. **Torque Converter:** Application to match engine to automatic transmission mechanical ratios.
- 2.3.21. **PTO Effects:** A constant drive PTO (Chelsea 129% ratio) shall be installed on the transmission (right side mount preferred). PTO shall have a SAE-B 2-bolt mount and be able to accept a 15-spline shaft.

## 2. Primary Specifications (cont.)

- 2.3.22. **Engine:** Diesel engine, electronic, wet-sleeved cylinders, high torque, 275 HP @ 2200 governed RPM, 800 lb.-ft. Torque @1200 RPM; includes #2 Bell Housing, electric engine shutdown, governor close regulated, starter motor, air cleaner restriction gauge, magnetic engine oil drain plug, spin-on type engine filter, spin-on water filter engine mounted, spin-on fuel filter engine mounted, hand operated diesel primer pump, fan drive with nylon fan, engine block heater 120-volt/1250 watt, air cleaner single element with integral snow valve and in-cab control; hand throttle engine speed control for PTO with electronic mobile variable speed control mounted on steering wheel. Automatic On/Off Type Control, Fan Drive.
- 2.3.23. **Radiator:** cross-flow series system, includes charge air cooler and de-aeration system with polypropylene tank and sight glass, premium rubber radiator and heater hoses.
- 2.3.24. **Transmission:** heavy-duty automatic close ratio (Allison MD 3560P) programmed as 5-speed with push button shift control, PTO gear and less retarder. Allison WT spare input/output for dump truck application. Transmission shall not up-shift above 3<sup>rd</sup> gear when central hydraulic system is put into snowplow mode. Appropriate wires shall be supplied in a body builder's plug so truck equipment company can complete transmission hold. A bracket mounted removable push-button shift control shall be supplied. Final installation of the shift control shall be completed after central hydraulics.
- 2.3.25. **Rear Axle, Tandem:** (Meritor RT-40-145) single reduction, 40,000-lb. minimum capacity with 200 wheel ends. Rear axle gear ratio of 4.88 shall be setup to maintain truck highway speed at 70 mph fully loaded; includes magnetic rear axle drain plug, variable-rate springs with 4,500 lb. Minimum capacity auxiliary springs. Electric over air operated power divider.
- 2.3.26. **Rear Suspension, Tandem:** (Hendrickson RT-403) Walking Beam Type 52" Axle Spacing; 40,000-lb. capacity with rubber center bushings.
- 2.3.27. **Fuel Tank:** One (1) single top draw; D-style, steel, 19" deep, 100 U.S. gallon minimum capacity with quick connect outlet and center and bottom steps, mounted on left side under cab. Fuel lines to be nylon tubing with o-ring snap on quick connect fittings at both ends.
- 2.3.28. **Cab, Cowl, Body:** Paint schematic: single color **RED**, design 100 AG; paint type, base coat/clear coat, 1-2 tone. Cab conventional steel, wide-body. Cab interior trim, premium; includes thermometer and compass. Arm rest on each door. Black rubber floor covering. Grab handle: two (2) each towel bar type. Anti-slip rubber for cab entry mounted left and right. Glass: all windows, tinted. Mirrors: (Lang Mekra) two (2) heated, rectangular, 7.09" x 15.75", brackets breakaway type with 102" wide spacing and with integral convex mirror heads on both side thermostatically controlled, bright finish heads and brackets. Gauge cluster: English with electronic engine oil pressure, fuel, water temperature, speedometer and tachometer for air brake chassis and voltmeter gauge. Must include odometer display to read miles, trip miles, engine hours and trip hours to be used in conjunction with on-board automated snow and ice control system. Must include a visual and audible warning/alert system for low fuel, low oil pressure, high engine coolant temperature and low battery voltage. Seat for driver should be air suspension (National Series 295), high-back with integral headrest, vinyl, isolated with two (2) position front cushion adjustment, 6 to 17 degree seat back adjustment and air lumbar support, includes 3-point seat belt, lap and shoulder belt type. Seat for passenger should be fixed, vinyl, standard (National) non-suspension, high-back with integral headrest and folding back; includes 3-point seat belt. Padded dash. Air conditioner with integral heater and defroster. Cab interior and trim: deluxe application with overhead console. Cab rear suspension, air bag type.
- 2.3.29. **Wheels:** Front: disc; 22.5" painted steel, 10-stud hub-piloted, flanged nut, metric mount, 8.25 DC rims with steel hubs; painted white. Rear: dual disc; 22.5" painted steel, 10-stud hub-piloted, flanged nut, metric mount, 8.25 DC rims with steel hubs; painted white. Wheel seals in front and back include; oil-lubricated wheel bearings.
- 2.3.30. **Tires:** Rear: four(4), 11R22.5 XZE(Michelin), load range G, 14 ply. Front: two(2), 11R22.5 XDH(Michelin), load range G, 14 ply.

**2. Primary Specifications (cont.)**

- 2.3.31. **Auxiliary Components:** All factory installed electrical wiring and connectors necessary for installation of a GPS-based fleet management system shall be included.
- 2.3.32. **Mudflaps:** front, standard equipment.
- 2.3.33. **Warranty:** Base vehicle warranty, 24 Months/Unlimited miles. Engine extended service warranty, 150,000 miles or 5 years. Transmission warranty, 5 year unlimited miles. Frame rails, cowl and cab structure warranty against corrosion, 5 years unlimited miles. **Note: Successful vendor shall be responsible for transporting truck to and from their repair facility for warranty maintenance and repair; includes all applicable service and transport fees and/or charges.**
- 2.3.34. **Manuals:** A service manual, parts manual, wiring diagram and bodybuilder's book for trucks, and line sheet of parts used to build the truck shall be included.
- 2.3.35. **Training:** Any training video's that apply to the truck shall be supplied (engine, transmission operation). Any CD's or DVD's used for engine, transmission, and ABS brake diagnosis shall be supplied.
- 2.4. **DUMP TRUCK BODY MINIMUM SPECIFICATIONS**
- 2.4.1. All electronic/electrical wiring shall be soldered, sealed with heat shrink tubing and placed in looms. Component wiring connections shall be run to a sealed junction box(s) to prevent corrosion and ease of repair.
- 2.4.2. **Dump Body:** (DuraClass HPT 316) 14 foot, 10 yard body with side-wall shaped into a continuous top rail, side and running board configuration and radius corners; all made of 3/16" hi-tensile physical quality steel. Sloped run-board type body with vertical side braces in body and 3/16" hi-tensile steel cross-memberless sub-frame that accepts a twin arm underbody hoist. The body ends shall be higher than the sides with pockets for extension sideboards. Composite 2" thick rubber sideboards shall be included with center upright supports to keep sideboards from flexing during loading of materials into dump body. The tailgate shall be reinforced and double-acting with proof coil chains and offset upper hinges. The operating device of the tailgate shall be electric over air operated and positive locking with the switch mounted in the operator control panel system. The body shall be equipped with two (2) holes, 3" in diameter for the rear side marker light. The body shall have elongated stop, directional and taillights flush mounted in the rear posts. Elongated amber quad-flash strobe lights shall be mounted in the rear posts directly above the stop/tail lights and in the top of the three (3) bend head sheet of the body.
- 2.4.3. **Front Head:** The front head shall be one-piece with a 3-bend top, 3" wide and 2" deep with a return flange of 1 3/8" and reinforced mid-height with a horizontal "V" section, all 8-gauge hi-tensile steel. It shall be 6" higher than the sides.
- 2.4.4. **Floor:** The floor shall be 2-piece seam welded down the center line with 5" vertical flanges at the sides and is made of 3/16" AR 400 hi-tensile steel.
- 2.4.5. **Sides:** The sides shall be 3/16" hi-tensile steel shaped into a top rail, side and running board configuration of one steel sheet to eliminate the outside seam weld below the top rail and to prevent troublesome moisture and freeze problems. Shall have smooth sloped radius corners. The front and rear corner posts shall be fully enclosed for added strength and resistance to corrosion. Rear corner posts shall be full-depth. The sides shall have 6" high pockets provided front and rear for extension sideboards.
- 2.4.6. **Tailgate:** Reinforced Asphalt Inversion type tailgate, multi-position, double-acting with air operated positive action tailgate control and flush mounted offset upper tailgate hinges. The tailgate cross braces shall be sloped for self-cleaning. The tailgate shall be 9-Panel with vertical and horizontal braces. The tailgate shall be made of 3/16" AR400 hi-tensile steel with the inner sheet made of 3/8" AR400 hi-tensile steel. The tailgate upper hinge pin shall be 1" in diameter. A piece of 1-1/2" angle iron shall be welded full length on top of tailgate to act as a self-cleaning device. The spreader chains shall be 5/16" in diameter proof coil and long enough to support the tailgate in a horizontal position. A 1/2" rod size folding D-ring device shall be positioned and welded in the center along the outside top edge of the top cross-member of the tailgate for use in removal and installation of tailgate when needed.
- 2.4.7. **Sub-frame:** The sub-frame shall be fabricated of 3/16" steel and cross-memberless. The long member shall be a "U" section, 3" wide with a depth of 8" on the 14' long body.

**2. Primary Specifications (cont.)**

- 2.4.8. **Operating Device:** The operating device shall be an electric over air operated locking device with positive latches to evenly secure lower tailgate pins to body for a good seal. An electrical push-button switch shall operate the device and shall be mounted on the driver's control console to his right. The links to the rear hinge and the tension rod to the front shall be made of ½" diameter rod. The tailgate lower hardware shall be of the overshot design made of ½" plate and equipped with air cylinders for operation.
- 2.4.9. **Tarp System:** A fully automatic, quiet, smooth running, electrically powered ribbed aluminum (Aero) tarp covering system shall be installed. The tarp cover must be made of heavy quality cloth mesh, proper length and width to accommodate the size of dump body opening. The tarp framework system shall be aluminum with arm guard rubber bumpers and rests. Aero Series CK5500W17V6 Easy Cover tarp with Aero ECTW17H heavy cloth mesh tarp cover is acceptable. The following items shall be included with the system: A 12VDC power source Aero 0311-961212 is acceptable, illuminated switch mounted on spreader controller console, forward and reverse power operated, direct drive, automatic reset circuit breakers, 18 oz. minimum cloth mesh tarp cover with loop in rear to slide over tarp, and underbody spring loaded bars to accommodate rolling and unrolling of the tarp system.
- 2.4.10. **Tool Box:** Weather Guard Model: R36-B is acceptable and shall be mounted on the driver's side of the truck frame just behind cab.
- 2.4.11. **Lighting:** Oval amber quad-flashing LED strobe lights (Petersen 423SA1 and 423SA2) shall be mounted in the top outer flange of the headboard cab protector (one of each kind) and in the rear corner post (one of each kind) above the stop/tail lights. Round LED side marker lamps mounted in rear corner posts. Oval 2" x 6" (Petersen M420R-2) red LED stop/taillights shall be installed in rear of dump body upright posts. Shall include all electrical wiring switch, controller and hardware necessary to make operational. A white floodlight (Petersen 507) with rubber housing cover shall be mounted on the driver's side on top of the aluminum tarp cover to illuminate the driver's side of the material spreader for safely climbing on and off truck when checking load. A bed up warning light shall be installed. All switches shall be illuminated push-button type and mounted in the driver's snow and ice controller panel, right forward of hand control joystick.
- 2.4.12. **Hoist:** Shall be a single cylinder, double-acting, double-arm type with 7" cylinder diameter; 21" stroke, 2" diameter hard chrome plated piston rod; 845.7 cubic inch cylinder displacement; hoist frame 6" deep of 5/16" steel; supporting cross-members gussets front and rear to long members; platform type flame cut hinges; hoist capacity 13.6 tons body and payload; minimum mounting height shall be 14' 3/8". Body raised indicator light in cab, backup alarm, factory installed body props, and 2 rear tow hooks mounted to rear truck frame.
- 2.4.13. **Additional Body Specifications:** A 1" thick x width of rear frame steel plate welded into place to house electrical plugs and hydraulic fittings; includes 40,000 lb. rear pintle hitch installed. Ladder on both sides of dump body, directly behind cab, running up through the body and constructed of ¾" re-bar. Positioning of ladder forward and back along the side shall be at the discretion of the driver. A walk-rail shall be added on both sides along the outside of the body, constructed of ¾" re-rod and run into the ladder uprights. A ½" cab protector constructed of 8-gauge steel shall be installed on the body with 2 grab handles welded on each side just below the tarp cover motor. Body shall include composite 2" thick rubber sideboards with center upright brace installed. A step mounted under the front corner of the dump body on the curbside and the street side. The entire body shall be primed with a salt corrosive inhibitor primer and painted with urethane paint to match the truck paint and with all mounting hardware and welding points painted appropriately. The underside of the body and hoist frame shall be primed with a salt corrosive inhibitor primer and painted gloss black. Mud flaps shall be installed behind the front tires on the truck with ¼ material acceptable. Mud flaps shall be installed on rear of dump body, ½"x 24" x 36" and in front of the rear wheels on the dump body, ½" x 24" x 30" anti-sail type; includes anti-sail brackets and holders. Warning decals and stickers shall be placed where required. Standard equipment supplied as required by OSHA and the Federal Transportation Department.

**2. Primary Specifications (cont.)**

- 2.4.14. **Warranty:** Body, hydraulic components, and labor shall be for two (2) years from the date of installation against manufacturer's defects. Hoist shall be three (3) years from the date of installation. Warranty shall be the responsibility of the truck equipment installer. The warranty shall cover all items provided and/or installed to the dealer's truck chassis.
- 2.5. **CENTRAL HYDRAULIC and AUTOMATIC CONTROLLER SYSTEM MINIMUM SPECIFICATIONS**
- 2.5.1. All items bid will include installation. Component Technology system components acceptable and presently utilized on all trucks in fleet.
- 2.5.2. All electronic/electrical wiring shall be soldered, sealed with heat shrink tubing and placed in asphalt type looms. Component wiring connections shall be run to sealed junction box(s) to prevent corrosion and ease of repair. All electronic solenoids shall be protected from salt corrosion.
- 2.5.3. **Hydraulic Pump:** The pump shall be axial piston load sensing type direct flange mounted to a Chelsea PTO, **no driveline will be accepted**. The pump shall be 4.33 CID and capable of 38 GPM at 2500 RPM and 3000 PSI. The pump must have rear ports to avoid multiple 90-degree bends in the suction line (**side ports are not acceptable**). The pump case drain must be positioned as high as possible and directed back to the reservoir without passing through the return line filter. The pump must have an internal bleed down compensator. The pump must have 15 splined shaft. Ports must be of the split flange design, 2" suction and 1 1/4" pressure and supplied with flange blocks to convert to NPT thread. The pump shall also have an automatic shutoff mounted to the pressure port of the pump in case of a hose breaking. This shutoff shall be connected to a low oil sensor mounted in the reservoir. Rexroth Model: A10V060DFR/52RPSC61N is acceptable and presently utilized on all trucks in the fleet.
- 2.5.4. **Power Take-Off:** The pump shall be driven by a (Chelsea model 266 series) PTO unit off the transmission. The PTO shall be of cast iron design double gear. The PTO unit shall be of the constant mesh style and fit on the Allison New World style transmission. Constant mesh means that the PTO unit will have no shift mechanism, it will always be engaged "LIVE POWER" when the engine is started and running.
- 2.5.5. **Hydraulic Stack Valve:** The valve shall be of a mobile stackable design load sensing type. The valve shall be capable of a nominal 35 GPM with published flow curves to 40 GPM. The valve must be pressure and flow compensated. Changing a valve section from single to double acting shall be done by replacing a shuttle cartridge. Inlet and outlet ports to be 1" o-ring and all working ports shall be 3/4" o-ring. The valve shall be arranged as follows: Inlet cap with pressure, tank and load sense port. Double-acting cylinder spool for hoist, with a work port relief for downside protection on port "A". Proportional 12VDC operated. Single-acting cylinder spool with built-in float for plow lift and 12VDC proportional operated with 11 GPM main spool. Single-acting motor spool for feeder/auger and proportional 12VDC spring to center with manual override. Single-acting motor spool for spinner and proportional 12VDC spring to center with manual override. Double-acting cylinder spool for plow angle and 12 VDC proportional operated with 11 GPM main spool. Outlet cap with pressure reducing valve and solenoid drain. Rexroth Mode: MP18 is acceptable and presently utilized on all trucks in the fleet.



**2. Primary Specifications (cont.)**

- 2.5.6. **Control Console:** Shall be a total control system with 100% proportional joystick. Shall be a modular unit that includes with the Circuit-Guard, fully adjustable pedestal, and control console with Uni-Grip multi-axis (X, Y & Z) 100% proportional joystick. Shall have 6 thumb activated push buttons for selecting functions such as, hoist, snowplow, dry material blast, spot spread, underbody plow and wing plow. Shall be able to control 3 valve functions simultaneously. Proportional control of up to 12 bi-directional valves. Must have safety trigger control protection for all valve functions. Armrest style console shall be fully adjustable to accommodate automatic or manual transmission. Shall have Allison automatic transmission push-button control built into armrest. **Note: This push-button transmission shift control pad shall be supplied from truck manufacturer on a dash mounted removable bracket to be removed by truck equipment company and reinstalled on drivers snow and ice control panel armrest.** Shall have room for up to 12 auxiliary switch functions that control 15 ampere relays protected with automatic reset circuit breakers. Unit must come with a backlit dash mounted display that indicates what joystick function that is activated. Dash display shall also have as part of it a digital readout for road and air temperature, and show the spreader control information. Display shall also have optional low hydraulic oil, body up, plow up and down, hot oil, and filter change indication. Base unit shall come with Circuit-Guard. Shall come with integrated circuit panel, automatic reset circuit breakers, color coded wiring, plug style connectors with gold plated contacts. Unit shall come with full schematic documentation. Minimum of two (2) pin out ports for customer mounted accessories such as two-way radio, cellular phone, etc. Shall have the capability of being Global Positioning System (GPS) expandable without major system and hardware changes.
- 2.5.7. **Hydraulic Reservoir:** Reservoir shall be 30-gallon minimum capacity with the breather cap mounted to an inspection lid. Inspection lid shall also provide for an in-tank mounted return line filter. Breather cap fill neck must be screened. Reservoir shall be complete with a sight temperature gauge and a magnetic drain plug. Suction port will allow for installation of a 2" NPT 50 GPM suction screen. Suction screen will have a 30 to 5 PSI by-pass spring. Reservoir must be constructed of 10-gauge steel. As an integral part of the reservoir, there shall be an area for mounting of the hydraulic stack valve. Reservoir must be of template style for bulkhead "through" mounting of the valve and be completely free from internal tubing or hoses from the work ports and inlet of the valve. Valve must be removable as a unit with template through the top of the reservoir for service and accessibility. Valve compartment area will have a drain tube of at least 1 1/4" in diameter and be placed to the front side of the reservoir and incorporate an angled base below the valve to allow fluid and condensation to flow easily to the drain tube area. There must be 3 additional side access panels for further service and accessibility. All panels must have formed gaskets and be weather sealed with bottom welded mounting nuts for panels. Electrical connections shall be made via weatherproof bulkhead connectors on the front (cab) side of the reservoir. Reservoir must be symmetrical and capable of mounting on either side of the truck frame.
- 2.5.8. **Hydraulic Return Filter:** Filter shall be top tank mounted type 10 microns with a by-pass and replaceable cartridge style element. Filter shall be capable of 80 GPM flow capacity. Filter shall have one (1) – 1 1/4" NPT port with the ability to be machined for another. A bypass condition pressure switch is required.
- 2.5.9. **Spreader Control:** The spreader control shall be a microprocessor based closed loop ground speed control system. The controller shall be capable of accurately spreading granular and pre-wetting liquid material as well as anti-icing liquid material. The controller shall be backlit and have a large backlit liquid crystal display. The controller shall be capable of 4 different granular material types. The controller shall be capable of closed loop operation on both auger and spinner. The controller shall be capable of gate control. The display shall alert the operator of any errors in the input signals detected by the microprocessor self-diagnostic system. All codes shall be displayed in English; the use of numeric error codes is not acceptable. The controller shall be capable of both automatic and manual modes. In the event of an auger sensor failure, the controller shall be capable of going into the open loop mode. Supervisor shall be able to lock out manual mode. Calibration shall be key accessible. The calibration shall be menu driven in English. The controller shall be capable of downloading spreader data and calibration data to a printer and directly to a PC. Software program for data download shall be included and have the proper cable to attach the controller and a laptop PC together. The controller shall be GPS system ready. The controller shall have a blast button that is time programmable. All sensors and cables for closed loop operation shall be included.

**2. Primary Specifications (cont.)**

- 2.5.10. **Hydraulic Pre-Wetting System:** Liquid pumping system shall come complete with all plumbing, pumps with an enclosure, and mounting hardware. The spray system shall be completely controlled by the ground speed spreader controller. System shall run off of the return oil from the auger motor. Liquid pump shall be a corrosion resistant bronze design. Pump shall be self-priming, pulse free positive displacement design. Unit shall come with a precision-machined stainless steel shaft. Pump shall have oil free carbon graphite bushings oversized for increased durability and longevity. Pump shall come with flush port for pre-fill or flush of mechanical seal chamber. Pump shall come with a longwearing, drip free mechanical shaft seal. Pump shall come with bronze gears for good durability with an abrasive material. Pump shall come with a built-in relief valve set at 45 PSI to protect against over-pressurization. Pump shall have a continuous duty rating of 125 PSI. Pump shall be plumbed through a 0-15 GPM flow meter made of non-corrosive material. Pump shall be capable of 9 GPM at 45 PSI. An aluminum bodied gear-roller style hydraulic motor shall drive liquid pump. Hydraulic motor shall come with side ports of the o-ring design. A pressure compensated 12VDC proportional flow control valve shall control the hydraulic flow going to the hydraulic motor. Flow control shall be 3 ported bypass design cartridge valve. Valve shall come with a screw adjustable manual override that allows continuation of operation in case of electrical failure. Hydraulic connections shall be bulkhead style mounted in bottom of enclosure. All hydraulics inside enclosure shall be hard plumbed. Pumps shall be mounted in a Nema approved 4x style weather tight enclosure. Liquid pumping system shall come complete with all plumbing, pumps with enclosure, tanks and all mounting hardware. The spray system shall be completely controlled by the ground speed spreader controller with the ability to turn it off at any time. The liquid spray system shall consist of the following: Two (2) liquid tanks 80 gallon minimum. Tanks shall be 84" long and one (1) 14-degree angled side for mounting along v-box spreader. Tanks shall also have 3 gussets molded in to back (straight side) for extra strength. They shall come with two (2) 4" NPT fill caps and breather mounted in top center of tank. Tanks to have bulkhead style fittings for suction, drain, and low level (spin weld fittings are not acceptable). Tanks must be mounted in a full-length 10-gauge steel pan that is painted with a salt corrosion resistant primer and painted black and held in place by 5,000 lb. straps. Tanks shall be protected at each corner end to prevent damage while backing truck in to receive v-box spreader.
- 2.5.11. **Warranty:** The warranty of the central hydraulic system shall be a full manufacturer's warranty for a period of 2 years unless otherwise covered by a separate component warranty. The warranty of the spreader control system (includes any software and hardware applications) shall be a full manufacturer's warranty for a period of 3 years unless otherwise covered by a separate component warranty. This shall include all parts, labor and trip charge.
- 2.5.12. **Manuals:** A service manual, parts manual, hydraulic and electrical schematic shall be included.
- 2.5.13. **Training:** Any training video's that apply to the truck spreader and computerized control system shall be supplied. Any CD's or DVD's used for fault diagnosis shall be supplied. Vendor shall schedule through the shop superintendent employee general maintenance and operation of the material spreader computerized control system at time of delivery or startup. Subsequent initial mechanical and supervisory training shall be scheduled with the shop superintendent and again when equipment updates become necessary.
- 2.6. **V-BOX MATERIAL SPREADER MINIMUM SPECIFICATIONS**
- 2.6.1. **Quantity (3) Note: Vendor will be bidding on a quantity of three (3) spreaders.**
- 2.6.2. Spreader shall be capable of hauling and spreading free flowing granular materials up to a width of 40 feet.
- 2.6.3. Unit shall consist of a heavy-duty 304 stainless steel body and adjustable discharge chute, heavy-duty steel auger, polyurethane spinner disc, power drive and all components necessary to make a complete (turn key) operating unit.

**2. Primary Specifications (cont.)**

- 2.6.4. **V-Box Hopper:** All-welded heavy-duty 304 stainless steel construction. Capacity to be a minimum of 9 cu. yd. struck capacity for tandem axle dump truck with a 14' bed. Overall height not to exceed 56" above dump body floor. Inside top width not to be less than 78". Body sides sloped pitch to insure free-flow of materials to the auger. Front and rear panel sloped slightly with inside welds continuous top to bottom using stainless steel welding wire. Sides, sills, ends, and side supports to be 12-gauge 304 stainless steel. Top edge of entire hopper to be formed "J" channel for additional support. Body floor is to be 10-gauge 304 stainless steel bolt-on / replaceable. Six (6) cross-members and side supports spaced 6" from body ends and 24" centers to give the highest degree of resistance to warping or twisting under heavy loads. Feed gate shall be 304 stainless, maximum 11" x 20" with curbside adjustable screw jack control and feed gate ruler. Body shall have protective cover grid made of 3/8" diameter rods with 2 1/2" x 2 1/2" openings. Full-length steel channel skids. Hopper top to have lift-hook pockets at each corner on sides. Unit shall be positioned and secured evenly into the dump body by the use of a steel cross-member bolted to the bottom rear of the hopper and with 1 1/4" round rod attached at each end to lock into the lower tailgate latches.
- 2.6.5. **Auger:** The auger system shall be of the screw type running longitudinally with the body, feeding material to the distributor disc. Heavy-duty, hi-tensile steel. The auger shall be cab controlled and external ground-speed oriented. Hydraulic motor shall be White Hydraulic brand with built-in speed sensor and directly mounted to auger drive. Auger shall have hydraulic hose safety loop built in to hydraulic system to shut auger down when hopper screens are opened.
- 2.6.6. **Spreading Mechanism:** The discharge chute shall be 12-gauge 304 stainless steel, 1-piece construction, totally enclosed and vertically adjustable for a total of 12"; includes a 45-degree minimum sloped 304 stainless steel awning (cover) over the rear of the discharge chute; placement shall be between lift-hook pockets on back of v-box hopper. Two (2) internal baffles are to be "slide-rod" adjustable to control placement of material on spinner. Four (4) external deflectors are to have overlapping corners for complete control of spread pattern and to protect truck undercasings. The deflectors are to be adjustable. The spinner hydraulic motor shall be White Hydraulic brand with built-in speed sensor and mounted outside the chute directly on top of the spinner disc to eliminate the use of a drive shaft and fewer moving parts to wear out. The spinner disc shall be polyurethane and 18" in diameter with replaceable hub. The spinner shall be designed to obtain a controlled spread of 4' to 40' for granular material.
- 2.6.7. **Cab Controls:** Automated ground speed oriented and shall be incorporated into the snow and ice spreader control system.
- 2.6.8. **Miscellaneous Accessories:** Tailgate Latching Device: constructed of 3" channel iron with 1 1/4" diameter pins welded at each end to fit a 7" wide dump body and fastened to v-box spreader rear sills. Vendor shall bolt-in the latching device once spreader is complete and fits properly. Vendor shall be responsible for proper alignment and placement of spreader in dump truck. Stainless Steel Side Shields with a bolt-on step and grab handle are to be supplied to prevent spillage and material buildup between hopper and the sides of the dump body. Two (2) per spreader and constructed of 304 stainless steel 12-gauge x 8" full length of hopper. Stainless steel side shields are to be bolted on and installed once spreader is aligned and positioned in truck and shall not extend past top outer edge of truck body. Sharp corners to be rounded off. Side Tubes And Rear Hoses: Supply two (2) 1/2" x 30" hoses for the auger motor and two (2) 1/2" x 80" hoses for the spinner motor; all 100rl, SAE rated. The four (4) hoses are to be connected to three (3) hydraulic tubing lines; two (2) 1/2" pressure lines and one (1) 3/4" return line which are to be mounted to body side supports and factory installed. Rear Lighting Kit: Unit shall be equipped with factory installed, wired, soldered, sealed and loom protected flood lighting mounted on each side of hopper rear near the top corner to enable driver to see material being applied to road surface. Shall include an illuminated push-button switch mounted in the driver's control console panel on right forward side. Two (2) LED, rectangle rear stop, turn and taillights shall be mounted in individual housings and bolted on the rear hopper with all wiring, soldered, sealed, and in asphalt loom protection. Shall include all wiring, connectors, cannon plugs to make lighting operational. Warning Sign: Unit shall be equipped with a rear mounted 18" x 18" x .080" thick aluminum engineer grade 8, reflectorized, with black lettering on orange background warning sign, "Stay Back 100 Feet". Sign should be mounted in such a manner as to give the best warning line of sight to motorists. It shall be the responsibility of the vendor to ensure design uniformity and compatibility with the material auger type spreaders presently utilized by this department.

**2. Primary Specifications (cont.)**

- 2.6.9. **Color:** All stainless steel shall be left unpainted. Any remaining carbon steel components shall be chemically cleaned and coated with a salt corrosion inhibitor epoxy primer and painted with acrylic enamel, factory standard color.
- 2.6.10. **Warranty:** The spreader shall have a full warranty for a period of 2 years unless other wise covered by a separate component warranty. This shall include all parts, labor and trip charge.
- 2.6.11. **Manuals:** One (1) set of detailed parts, service and operation manuals shall be included.
- 2.7. **GLOBAL POSITIONING SYSTEM MINIMUM SPECIFICATIONS**
- 2.7.1. **Quantity (4) Note: Vendor will be bidding on four(4) installed systems. The fourth system shall be installed in a 2002 International 4400, DT530E Dump Truck already purchased and has Component Technology GL 400 Automated Material Spreader Controller being utilized.**
- 2.7.2. The Orptrac – 100 system is acceptable. All electronics shall be integrated into one unit for simplicity in operation and installation.
- 2.7.3. **In-Vehicle Unit Integrated Components:** Integrated into the In-Vehicle Unit shall be a GPS receiver, CDPD modem, interface, processor, keypad, display and sensor interface. The unit shall be capable of interfacing to Component Technology GL 400 automatic ground-speed oriented material spreader controller, plow up and down sensor, and road temperature sensor via a standard RS-232/RS-485 interface with a minimum of eight(8) opto-isolated discrete interfaces. All data shall be real time and location stamped with differentially corrected GPS and transmitted to dispatch. Each unit shall be equipped with a mounted antenna, cable, connectors, and any other component necessary for complete installation and operation.
- 2.7.4. **Functions:** Shall include Operator Log-On, Vehicle Positioning and Transmitting, Emergency Alarm, Two-Way Messaging, and Sensor Data Collection. Display shall be backlit LCD with keypad.
- 2.7.5. **Processor:** Modular internal design with upgradeable processor power and memory size.
- 2.7.6. **Power Supply:** Filtered, 12V vehicle power supply, hard wired to GL 400 control panel power source.
- 2.7.7. **Position Determination:** Integral, 8-channel GPS receiver, 10 meter position accuracy (nominal).
- 2.7.8. **Fixed End Software Operating System:** Windows 95 minimum system operating software, Single User PC, with the following minimum features: 2-Way Messaging, Vehicle Trace, 3 Nearest Vehicles, Maintenance Report Writer, Mapping, Trace Aging, Find Vehicle, Playback, Vehicle Data Display, and Emergency Alarm.
- 2.8. **SNOW PLOW MINIMUM SPECIFICATIONS**
- 2.8.1. **Quantity: (3) Note: Vendor will be bidding on a quantity of three (3) snowplows.**
- 2.8.2. Reversible, Hydraulically Operated, 10' snow plow. Minimum weight of 1480 lbs.
- 2.8.3. **Moldboard:** The moldboard shall be a straight blade reversible type rolled from a sheet of 3/16" plate steel. A rolled radius with an integrated shield rolled into the radius for high speed plowing. Length shall be 10' and height shall be 36 inches. The moldboard shall be reinforced vertically by at least eight (8) ½" x 4" plasma cut ribs extending from the cutting edge reinforcement to the top channel formed flange. A double rib at the center attaching point to the drive frame which will allow for three (3) variable adjustments for tilting of the moldboard. A 4" x 4" x 5/8" reinforced bottom angle. Two (2) moldboard end markers. A strip of black pliable rubber ¼" x 8" x 10' shall be bolted in place the full length along outer top front edge of the plow to deflect blowing snow.
- 2.8.4. **Cutting Edge:** The cutting edge shall be 5/8" x 8" x 10' full length of high tensile steel and to have square hole punch with standard punching. Edge to be replaceable and fastened with grade 8 carriage bolts.
- 2.8.5. **Semi-Circle:** The circle shall be constructed with at least ½" x 3 ½" x 3 ½" rolled angle steel arc spanning 66" and reinforced with metal 5/8" x 3 ½" for additional strength and welded to 4" x 4" x 3/8" structural tube push-beam. All pins shall be ¾" hardened steel minimum. The semi-circle shall have four (4) hinge points minimum as well as a series of holes to accommodate a minimum of three (3) positions to adjust the trip springs. Outside hinge centers of 85". There shall be a full-length lift chain of 3/8" proof coil chain with a cast steel chain block attached to the semi-circle.

2. Primary Specifications (cont.)

- 2.8.6. **Push-Frame:** The turn cylinders shall be a minimum of 3" x 10" double acting with 2 1/2" chrome rod. A pipe threaded cushion valve and mounting plate shall be supplied. The A-frame push member shall be constructed of 4" ship channel steel welded to 1" x 5" backplate, reinforced with 5/8" x 3 1/2" top plate and connected by means of an equalizer bar at the end. Universal hitch swivel plate ears shall be 16" off ground level on centers, 21" apart on centers with holes drilled to accommodate 1 1/4" drive pins to attach to truck hitch. The swivel plate shall swivel up and down on the push frame on a heavy-duty swivel plate, 7" ship channel with 1 1/4" grade 8 bolt in reinforced swivel mechanism and 1" plasma cut ears. The push frame shall be level once the drive bar ears are hooked to the truck hitch with the cutting edge resting on the ground. There shall be no mechanical lock between the semi-circle and the frame. The turn cylinders and the flow valves will do the locking. The length of the push frame from the moldboard attaching point shall be 36" and allow at least 6" of bumper clearance at a 42-degree angle left and right. The overall distance from the front of the cutting edge to the center of the drive bar ear shall be 48" maximum.
- 2.8.7. **Trip Spring:** Must be an enclosed extra heavy-duty cannon type trip spring rated at a minimum of 3300 lbs. A fully automatic trip device shall be mounted on the semi-circle. Assembled with extra heavy-duty trunnion plates with Grade 8 bolts.
- 2.8.8. **Color:** The snowplow shall be chemically cleaned and coated with a salt corrosion inhibitor epoxy primer and painted with acrylic enamel, factory standard color.
- 2.8.9. **Miscellaneous:** Two (2) adjustable 8" pneumatic full swivel wheels/tires mounted to the semi-circle frame assembly, reinforced with 1/4" plate steel for strength, 1 1/4" acme threaded rod in 3 1/2" x 3 1/2" x 3/16" structural tubing and having steel bearing 5 bolt hubs with grease fittings and bolt-on wheels/tires. Bearings are to be preloaded. Snowplows shall include a cushion valve with pipe threads and mounting plate. Boone County will supply the hydraulic hoses, couplers, bumper, truck hitch and frame lift for each snow plow.
- 2.8.10. **Warranty:** The snowplow shall have a full warranty for a period of 2 years on material and workmanship.

2.9. DEVIATIONS

2.9.1. It is the bidder's responsibility to submit a bid that meets all mandatory specifications stated within. Because of the complexity and number of required specifications, the bidder must compare their product bid with the required listed minimum specifications and identify any deviations. Failure to properly identify deviations may render the bidder's proposal non-responsive and not capable of consideration for award. Bidders should note that a descriptive brochure of the model bid may not be acceptable as proper identification of deviations from the written specifications.

- 2.10. **Designee** – Boone County Public Works
- 2.10.1. **Contact** – Marlene Ridgway, Boone County Purchasing Department 601 E. Walnut, Columbia, MO 65201. Telephone: 573-886-4392 Facsimile: 573-886-4402 or email: [midgway@boonecountymo.org](mailto:midgway@boonecountymo.org)
- 2.11. **Delivery:** Units shall be delivered with Bill of Sale and Title of Ownership.
- 2.11.1. **Delivery Terms:** FOB Boone County Public Works Department, Maintenance Operations, 5551 Highway 63 South, Columbia, MO 65201
- 2.12. **ADDITIONAL TERMS AND CONDITIONS:**
- 2.12.1. Equipment shall be properly serviced, including grease and oil to the proper levels.
- 2.12.2. Vendor to include product literature for each proposed piece of equipment.
- 2.12.3. Bid evaluation will be based on quality, reliability, delivery time ARO, and cost. Quality and reliability may be determined by using information contained in product reviews from established publications.

**3. Response Presentation and Review**

- 3.1. **RESPONSE CONTENT** - In order to enable direct comparison of competing Responses, Bidder must submit Response in strict conformity to the requirements stated herein. Failure to adhere to all requirements may result in Bidder's Response being disqualified as non-responsive. All Responses must be submitted using the provided Response Sheet. Every question must be answered and if not applicable, the section must contain "N/A." Manufacturer's published specifications for the items requested shall be included with the response.
- 3.2. **SUBMITTAL OF RESPONSES** - Responses MUST be received by the date and time noted on the title page under "Bid Submission Information and Deadline". NO EXCEPTIONS. The County is not responsible for late or incorrect deliveries from the US Postal Service or any other mail carrier.
  - 3.2.1. **Submittal Package** - Submit, to the location specified on the title page, **three (3) complete copies** of your Response in a single sealed envelope, clearly marked on the outside with your company name and return address, the proposal number and the due date and time.
  - 3.2.2. **Advice of Award** - If you wish to be advised of the outcome of this Bid, enclose with your Response a self-addressed stamped return envelope (size 10, first-class one-ounce postage) for our use in mailing a copy of the summary recap of the award. Notification will be by mail only, except to awarded Bidder.
- 3.3. **BID OPENING** - On the date and time and at the location specified on the title page under "Bid Opening", all Responses will be opened in public. Brief summary information from each will be read aloud, and any person present will be allowed, under supervision, to scan any Response.
  - 3.3.1. **Removal from Vendor Database** - If any prospective Bidder currently in our Vendor Database to whom the Bid was sent elects not to submit a Response and fails to reply in writing stating reasons for not bidding, that Bidder's name may be removed from our database. Other reasons for removal include unwillingness or inability to show financial responsibility, reported poor performance, unsatisfactory service, or repeated inability to meet delivery requirements.
- 3.4. **RESPONSE CLARIFICATION** – The County reserves the right to request additional written or oral information from Bidders in order to obtain clarification of their Responses.
  - 3.4.1. **Rejection or Correction of Responses** – The County reserves the right to reject any or all Responses. Minor irregularities or informalities in any Response which are immaterial or inconsequential in nature, and are neither affected by law nor at substantial variance with Bid conditions, may be waived at our discretion whenever it is determined to be in the County's best interest.
- 3.5. **EVALUATION PROCESS** – The County's sole purpose in the evaluation process is to determine from among the Responses received which one is best suited to meet the County's needs at the lowest possible cost. Any final analysis or weighted point score does not imply that one Bidder is superior to another, but simply that in our judgment the Contractor selected appears to offer the best overall solution for our current and anticipated needs at the lowest possible cost.
  - 3.5.1. **Method of Evaluation** – The County will evaluate submitted Responses in relation to all aspects of this Bid.
  - 3.5.2. **Acceptability** – The County reserves the sole right to determine whether goods and/or services offered are acceptable for County use.
  - 3.5.3. **Endurance of Pricing** – Bidder's pricing must be held until contract execution or 60 days, whichever comes first.

**4. Response Form**

- 4.1. Company Name: \_\_\_\_\_
- 4.2. Address: \_\_\_\_\_
- 4.3. City/Zip: \_\_\_\_\_
- 4.4. Phone Number: \_\_\_\_\_
- 4.5. Fax Number: \_\_\_\_\_
- 4.16. Federal Tax ID: \_\_\_\_\_
- 4.6.1. ( ) Corporation  
 ( ) Partnership - Name \_\_\_\_\_  
 ( ) Individual/Proprietorship - Individual Name \_\_\_\_\_  
 ( ) Other (Specify) \_\_\_\_\_

4.7. PRICING	<u>Unit Price</u>	<u>Qty</u>	<u>Extended Price</u>
4.7.1. 2002 Tandem Axle 6.6 Dump Truck per Section 2.3.	\$ _____	3	\$ _____
4.7.2. Dump Truck Body per Section 2.4.	\$ _____	3	\$ _____
4.7.3. Central Hydraulic/Controller System per Section 2.5.	\$ _____	3	\$ _____
4.7.4. V-Box Material Spreader per Section 2.6.	\$ _____	3	\$ _____
4.7.5. Global Positioning System per Section 2.7.	\$ _____	3	\$ _____
4.7.6. Snow Plow per section 2.8.	\$ _____	3	\$ _____
4.7.7. <b>TOTAL</b>			\$ _____

4.8. Trade-In Vehicle A	Price
4.8.1. 1995 International 2554 Series Truck w/ Henderson 14 foot Dump Body VIN# 1HTGCAARXSH675354 Vehicle # 1724 Mileage: 235,000	\$ _____
4.8.2. 1994 Larson L513 Dry Material Spreader Serial # 101197 ID # 3101	\$ _____
4.8.3. 1988 Good Roads 10 foot Reversible Snow Plow ID # 3002	\$ _____
4.8.4. <b>Total</b>	\$ _____

4.9. Trade-In Vehicle B	Price
4.9.1. 1995 International 2554 Series Truck w/ Henderson 14 foot Dump Body VIN# 1HTGCAAR6SH675352 Vehicle # 1734 Mileage: 205,000	\$ _____
4.9.2. 1989 Fontaine SC13 Dry Material Spreader Serial # SC2473 ID # 3104	\$ _____
4.9.3. 1990 Good Roads 10 foot Reversible Snow Plow ID # 3014	\$ _____
4.9.4. <b>Trade-In Total Vehicle B</b>	\$ _____

4. **Response Form (cont.)**

	Price
4.10. <b>Trade-In Vehicle C</b>	
4.10.1. 1995 International 2554 Series Truck w/ Henderson 14 foot Dump Body VIN # 1HTGCAAR8SH6755353 Vehicle # 1735 Mileage: 240,000	\$ _____
4.10.2. 1994 Larson L513 Dry Material Spreader Serial # 101195 ID # 3106	\$ _____
4.10.3. 1990 Good Roads 10 foot Reversible Snow Plow ID # 3015	\$ _____
4.10.4. <b>Trade-In Total Vehicle C</b>	\$ _____
4.11. <b><u>TRADE-IN GRAND TOTAL (Vehicle A,B,C)</u></b>	\$ _____
4.12. <b><u>GRAND TOTAL (4.7.7. - 4.8.4. - 4.9.4. - 4.10.4.)</u></b>	\$ _____
4.13. Total Price for 4 <sup>th</sup> Global Positioning System Installed in the 2002 International 4400, DT530E Vehicle # 1772 per Section 2.7.1.	\$ _____

4.14. **Describe Warranty Features of All Items**

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4.15. **The undersigned offers to furnish and deliver the articles or services as specified at the prices and terms stated and in strict accordance with all requirements contained in the Invitation for Quote (Bid) which have been read and understood, and all of which are made part of this order. By submission of this bid, the vendor certifies that they are in compliance with Section 34.353 and, if applicable, Section 34.359 ("Missouri Domestic Products Procurement Act") of the Revised Statutes of Missouri.**

4.15.1. Authorized Representative (Sign By Hand):

\_\_\_\_\_ Date: \_\_\_\_\_

Print Name and Title of Authorized Representative

\_\_\_\_\_

4.16. Will you honor the submitted prices for purchase by other entities in Boone County who participate in cooperative purchasing with Boone County, Missouri?

\_\_\_\_\_ Yes \_\_\_\_\_ No

4.17. Delivery ARO: \_\_\_\_\_





**Boone County Purchasing**  
601 E. Walnut, 2nd Floor  
Columbia, MO 65201

## ***Standard Terms and Conditions***

**Marlene Ridgway, Buyer**  
573/886-4392 - FAX 573/886-4402

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1. Responses shall include all charges for packing, delivery, installation, etc., (unless otherwise specified) to the Boone County Department identified in the Request for Quotation and/or Proposal.
2. The Boone County Commission has the right to accept or reject any part or parts of all bids, to waive technicalities, and to accept the offer the County Commission considers the most advantageous to the County.
3. Bidders must use the bid forms provided for the purpose of submitting bids, must return the quotation and bid sheets comprised in this bid, give the unit price, extended totals, and sign the bid.
4. When products or materials of any particular producer or manufacturer are mentioned in our specifications, such products or materials are intended to be descriptive of type or quality and not restricted to those mentioned.
5. Do not include Federal Excise Tax or Sales and Use Taxes in bid process, as law exempts the County from them.
6. The delivery date shall be stated in definite terms, as it will be taken into consideration in awarding the bid.
7. The County Commission reserves the right to cancel all or any part of orders if delivery is not made or work is not started as guaranteed. In case of delay, the Contractor must notify the Purchasing Department.
8. In case of default by the Contractor, the County of Boone will procure the articles or services from other sources and hold the Bidder responsible for any excess cost occasioned thereby.
9. Failure to deliver as guaranteed shall disqualify Bidder from future bidding.
10. Prices must be as stated in units of quantity specified, and must be firm. Bids qualified by escalator clauses may not be considered unless specified in the bid specifications.
11. No bid transmitted by fax machine will be accepted.
12. The County of Boone, Missouri expressly denies responsibility for, or ownership of any item purchased until same is delivered to the County and is accepted by the County.