

# **BIDDER'S PACKAGE**

**CARBON COUNTY**

**SOLICITATION FOR BIDS FOR  
ONE (1) NEW 2017 OR NEWER ALL-WHEEL DRIVE  
MOTOR GRADER**

(Preapproved Models: Caterpillar 160M3AWD, John Deere 872GP, or Equivalent)

**April 2017**

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## INVITATION TO BIDDERS

NOTICE IS HEREBY GIVEN, that the Carbon County Board of Commissioners will receive sealed bids for the purchase over time of one (1) new 2017, diesel powered, articulated frame, all-wheel drive motor grader. Specifications for the equipment may be obtained by contacting the clerk and recorder's office at the Carbon County Courthouse.

Bids will be opened on the 20<sup>th</sup> day of April, 2017, at the time of 11:00 o'clock a.m. in the office of the Board of Commissioners, in the Carbon County Administration Building, 17 West 11<sup>th</sup> St., Red Lodge, Montana.

Each bid must be accompanied by a Certified Check, Cashier's Check, or Bid bond payable to Carbon County in the amount of ten percent (10%) of the total amount of the bid for the motor graders without deduction for the value of the possible trade in equipment. The successful bidder shall forfeit to Carbon County their bid security if they fail or refuse to enter into a contract within the time specified. Bid security of unsuccessful bidders shall be returned upon acceptance of the successful bid.

All bids shall remain effective for a period of 180 days from the date of opening. Carbon County reserves the right to consider or reject any and all bids, and further to waive any defects or irregularities. All bidders must use the bid form supplied with the specifications. A contract will be awarded to the lowest and most responsible bidder.

All bidders are expected to be aware of and to abide by all state and federal statutes, rules, and regulations governing the solicitation and acceptance of public contracts, including any such statute, rule or regulation relating to non-discrimination.

The Board of Commissioners reserves the right to reject any or all bids, to waive irregularities, or to accept any bid they deem to be in the best interest of Carbon County.

DATED this 3<sup>rd</sup> day of April, 2017.

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Doug Tucker, Presiding Officer  
Carbon County Board of Commissioners

**(Publish dates: April 6<sup>th</sup> and 13<sup>th</sup>, 2017)**

## GENERAL INFORMATION FOR BIDDERS

1. Bid Opening. The Carbon County Commissioners will receive bids from persons or entities capable of supplying one (1) new 2017, diesel powered, articulated frame all-wheel drive motor grader as described in the specifications included herein. Bids shall be opened and read aloud at a meeting of the Commissioners to take place on the 20<sup>th</sup> day of April, 2017, at the time of 11:00 o'clock a.m. at the Commissioners Office, in the Carbon County Courthouse in Red Lodge, Montana. All bids must be received no later than the start of the meeting.

2. Notice. Notice is being published in the Carbon County News, (a copy of the notice is included with this package) with publication dates of April 6<sup>th</sup> and 13<sup>th</sup>. All interested and capable persons or entities are invited to submit bids on the bid form included with this package.

3. Bid Security. Pursuant to Section 18-1-201, Montana Code Annotated, the Board of Commissioners must require a bid security. Each bid must be accompanied by security in a form specified below, and in an amount equal to ten percent (10%) of the bid of the bidder, and payable to Carbon County.

According to the above cited statute, bid security is required “as a condition precedent to considering any such bids, as evidence of good faith on the part of the bidder, and as indemnity for the benefit of such public authority against the failure or refusal of any bidder to enter into any written contract that may be awarded upon and following acceptance of (a) bid...” Thus, if a bidder is selected and requested to enter into the contract, and the bidder refuses to enter into the contract, the bid security shall be forfeited in its entirety to Carbon County.

The form of the bid security is specified in Section 18-1202, Montana Code Annotated, as follows;

“(1) In all cases under 18-1202 (1), the bidder, offeror, or tenderer shall accompany and bid with either:

(a) lawful money of the United States;

(b) a cashier’s check, certified check, bank money order, or bank draft, in any case drawn and issued by a federally chartered or state-chartered bank insured by the federal deposit insurance corporation; or

(c) a bid bond, guaranty bond, or surety bond executed by a surety corporation authorized to do business in the state of Montana. If a financial guaranty bond or surety bond is provided to secure the purchase of indebtedness, the long-term indebtedness of the company

executing the financial guaranty bond or surety bond must carry an investment grade rating of one or more nationally recognized independent rating agencies.

(2) The money or, in lieu of money, the bank instruments or bid bonds, financial guaranty bonds, or surety bonds must be payable directly to the public authority soliciting or advertising for bids.”

The successful bidder’s bid security shall be returned upon the parties entering into a contract. Also, at such time, the bid security of unsuccessful bidders shall be returned.

4. Contract. The successful bidder will be expected to enter into a contract with Carbon County. The form of the contract is included within this package. However, Carbon County reserves the right to make changes to the contract which do not affect the substantial rights of the parties.

All bids shall remain effective for a period of 180 days from the date of opening at some time during said thirty 180 day period, the successful bidder will be expected to enter into the contract.

5. Waiver of irregularities and informalities. Carbon County reserves the right to waive any irregularity or informality in any bid. Further, Carbon County reserves the right to reject any and all bids for any reason.

6. Basis of Award. Shall be dependent on the *most responsible* bid submitted. Consideration will be given, but is not limited to, cash flow, purchase price, delivery date, equipment service guarantees, parts and service availability, parts and service facilities locations, analysis and comparison of equipment specification details, and past experience of Carbon County with similar or related equipment.

7. Resident Bidder Preference. Pursuant to Section 18-1-102, Montana Code Annotated, Carbon County will award the contract “to the lowest responsible bidder without regard to residency. However, a resident must be allowed a preference on a contract against the bid of a nonresident if the state or country of the nonresident enforces a preference for residents. The preference must be equal to the preference given in the other state or country.”

According to Section 18-1-113, Montana Code Annotated, any bidder seeking a preference shall be required to file, along with the bid, an affidavit, specifying in detail, the basis upon which the bidder claims a preference.

8. Non-Discrimination. The successful bidder shall be expected to abide by a all provisions of state and federal law regarding discrimination. One such provision, in Montana law is Section 49-3-207, Montana Code Annotated, which states Non-Discrimination; “(e)very state or local contract or subcontract for construction of public buildings or for other public work or for goods or services must contain a provision that all hiring must be on the basis of merit and qualifications, and a provision that there may not be discrimination on the basis or race, color

religion, creed, political ideas, sex, age, marital status, physical or mental disability, or national origin by the persons performing the contract.

9. Laws and Regulations. Each bidder is expected to be familiar with and abide by all laws of the federal, state and local governments regarding their obligations in bidding and performing public contracts.

10. Trade-in. Each bidder will be expected to state a value of a used motor grader Carbon County may wish to trade in, and which will reduce the purchase price. The motor grader is a used 2009 Deere 772D Serial # 623324. The value stated by the bidder for the machine must be stated separately on the Bid Form. In accepting the bid from the successful bidder, Carbon County may elect to trade any, all or none of the used equipment, and if Carbon County elects to trade in any such item or items, the successful bidder shall receive such equipment at the time of delivery of the motor graders. The successful bidder will be responsible for transporting any such equipment from Carbon County. Any items to be traded in shall be accepted by the bidder "as is", with no warranties and/or representations whatsoever. Upon reasonable advance notice, any bidder may inspect any of the items proposed for trade-in by contacting Commissioner Ronish. The transfer of any such item of equipment shall be by bill of sale delivered to the successful bidder at the time of delivery of the motor graders

11. Warranty. In order to guarantee the cost of repairs and minimize downtime for Carbon County, all bidders shall include with their bid a total machine warranty, for a period of seven (7) years or seven thousand (7,000) hours of operation from date of delivery, whichever occurs first.

12. Questions. Should any bidder have any questions about the specifications, or any provision or other information contained in the bidder's package, they may direct inquires to Doug Tucker, Commissioner, 17 West 11th, Red Lodge, MT 59068; phone 406-466-1595. Any clarification information, or any changes made to any information in the bidder's package shall be provided to all potential bidders who have obtained a copy of the specifications from Carbon County.

## BIDDER'S SUBMISSION REQUIREMENTS

Sealed bids shall be submitted by each bidder. Sealed bids must be received by Carbon County no later than 11:00 o'clock a.m., April 20<sup>th</sup>, 2017, which is the time of commencement of the meeting to open bids. Bidders are expected to abide by the following requirements.

Each bid and accompanying documents shall be submitted in a standard 8 1/2 x 12, or larger manila envelope. The manila envelope shall be sealed, and the following information shall be written or typed on the outside of the envelope: (1) the name, address, and telephone number of the bidder; (2) the words "Bid to Carbon County for Motor Grader."

The following documents shall be included in the manila envelope, in the following order:

1. Bid Forms. The Bid Form shall be completely filled out and signed by an authorized agent of the bidding company.
2. Bid Bond. A bid bond must be enclosed and must be in the form as specified in this package.  
The bid bond must be in the amount bid for the motor graders, without deduction for the value bid for any of the proposed trade-in items.
3. Warranty Information. All warranty information for the equipment must be included.
4. Delivery Date. Bidder must specify delivery date. Delivery shall be F.O.B. Carbon County Shop at Red Lodge, Montana.
5. Other Information. Bidders are encouraged, but not required, to include other information about their business and about the equipment in the bid.

## BID FORM

The undersigned Bidder hereby covenants and agrees to provide one (1) new 2017, diesel powered, articulated frame all-wheel drive motor graders, as described in the Specifications, for the price stated. The bidder understands that this bid is effective for thirty (30) days from the date of opening. All lines on the Bid Form must be completed.

Motor Grader Manufacturer \_\_\_\_\_ Year & Model \_\_\_\_\_

Net purchase price (without trade) including warranty costs,  
F.O.B. Carbon County Shop at Red Lodge, Montana (each) \$ \_\_\_\_\_

Less trade in for:  
Used 2009 Deere 772D Motor Grader Serial # 623324 \$ \_\_\_\_\_

**Total cost to Carbon County** (net purchase price – trade allowance) \$ \_\_\_\_\_

### OPTIONS:

**Bidder must state name of manufacturer and whether equipment is new or used.**

REAR RIPPER \$ \_\_\_\_\_

POSTLESS SNOW WING \$ \_\_\_\_\_

V-PLOW \$ \_\_\_\_\_

Proposed delivery date: \_\_\_\_\_

NOTE: Carbon County reserves right to determine later delivery date for budget purposes.

**NOTE:** CARBON COUNTY RESERVES THE RIGHT TO KEEP ANY OR ALL OF THE PIECES OF EQUIPMENT FOR PROPOSED TRADE-IN, AND IN SUCH EVENT, THE BALANCE AMOUNT WILL BE INCREASED IN A LIKE AMOUNT, OR AMOUNTS. THE BID BOND SUBMITTED WITH THIS FORM SHALL BE BASED ON THE FULL AMOUNT BID FOR THE MOTOR GRADER, AND MAY NOT BE REBUCED FOR THE VALUE OF ANY OF THE PROPOSED EQUIPMENT FOR TRADE-IN.

Bidder's Name \_\_\_\_\_

Bidder's Address \_\_\_\_\_  
\_\_\_\_\_

Bidder's Phone No. \_\_\_\_\_

\_\_\_\_\_  
Bidder's Signature



## SPECIFICATIONS

**Please describe all warranties, guarantees, and extended coverage's of the motor grader, including an extended service plan.**

Pursuant to the Invitation to Bidders, requesting bids for one (1) new, 2017, diesel powered, articulated frame, tandem drive motor grader, the following minimum requirements, or substantially similar equivalents, shall be met:

- A. Motor grader(s) shall meet OSHA requirements and specifications on the date of the bid opening.
- B. No bid will be considered unless accompanied by a bid bond, bank draft, money order, or certified or cashiers check, in the amount of not less than ten percent (10%) of the total amount for the total number of machines bid, as further described in paragraph 3 of the General Information for Bidders in the Bidder's Package.
- C. Delivery shall be F.O.B. Carbon County Shop at Red Lodge, Montana.
- D. Upon delivery, the successful bidder shall include all operating, service, parts and technical repair manuals and on-site operator training of basic machine functions.
- E. Bidder must specify delivery date.
- F. All machines shall be the current advertised and produced model, with all the latest changes and features offered as standard, whether or not called for in the bid specifications.

**PLEASE INDICATE IN THE FOLLOWING IF THE MACHINES OFFERED CAN MEET THE FOLLOWING MINIMUM DESIRED CONFIGURATIOHS. ANY "NO" MUST BE CLARIFIED ON A SEPARATE SHEET IF THE BIDDER DESIRES SUPPORT FOR AND ALTERNATE OR SUBSSTANTIALLY SIMILAR SPECIFICATION.**

### BASIC SPECIFICATIONS

Y \_\_\_ N \_\_\_  
Y \_\_\_ N \_\_\_

Machine shall be designed and built by the manufacturer.  
Base operating weight shall not be less than 39,000 lbs.

## ENGINE

- Y\_\_\_ N\_\_\_ Engine shall be designed and built by the manufacturer.
- Y\_\_\_ N\_\_\_ Engine shall be a turbo-charged, direct injection, four stroke, 6-cylinder diesel engine.
- Y\_\_\_ N\_\_\_ Engine shall be certified EPA Tier 4 final.
- Y\_\_\_ N\_\_\_ Engine shall be electronically controlled for more efficient fuel injection and fuel burn.
- Y\_\_\_ N\_\_\_ Engine shall achieve rated power requirement with engine displacement not less than 9.0L (548 in<sup>3</sup>) for better performance and fuel economy.
- Y\_\_\_ N\_\_\_ Engine shall develop as standard while AWD is ON a rated net flywheel of at least 293 HP in 8<sup>th</sup>.
- 
- Y\_\_\_ N\_\_\_ Altitude deration will not occur at altitudes less than 10,000 ft (3048 m). The deration rate above 10,000 ft (3048 m) shall be 1.5% per 1000 ft (305 m).
- Y\_\_\_ N\_\_\_ Peak engine power shall not be achieved at an engine speed greater than 1800 rpm.
- Y\_\_\_ N\_\_\_ Rated engine power shall not be achieved at an engine speed greater than 2100 rpm.
- Y\_\_\_ N\_\_\_ Engine enclosure and daily service points shall be accessible from ground level and grouped on the left side of the machine.
- Y\_\_\_ N\_\_\_ Engine shall allow for at least 500 hours of operation between oil changes.
- Y\_\_\_ N\_\_\_ Engine shall be isolation/resilient mounted to minimize sound and vibration.
- Y\_\_\_ N\_\_\_ Engine compartment doors shall be lockable without the use of external locks.
- Y\_\_\_ N\_\_\_ A 120V engine coolant heater shall be provided to assist in cold weather starting.
- Y\_\_\_ N\_\_\_ Ether starting aid shall be provided and must automatically meter ether injection to prevent engine damage.
- Y\_\_\_ N\_\_\_ Precleaner designed to handle large debris fields, including snow shall be provided.
- Y\_\_\_ N\_\_\_ Antifreeze with protection to -50F.

## POWERTRAIN/TRANSMISSION

- Y\_\_\_ N\_\_\_ Transmission shall be designed and built by the machine manufacturer.
- Y\_\_\_ N\_\_\_ Transmission shall be a direct drive, power shift, countershaft type.
- Y\_\_\_ N\_\_\_ Transmission shall be equipped with built-in self-diagnostic capability.
- Y\_\_\_ N\_\_\_ Transmission shall have no less than 8 forward speeds and 6 reverse speeds (for added safety).
- Y\_\_\_ N\_\_\_ Transmission shall have 5 working gears between 0-10.4 mph for dirt applications.
- 
- Y\_\_\_ N\_\_\_ Transmission shall be isolated/resilient mounted to reduce sound and vibration.
- Y\_\_\_ N\_\_\_ A load compensating system for the transmission shall be standard to ensure consistent shift quality in all applications.
- Y\_\_\_ N\_\_\_ Automatic Differential Lock/Unlock feature shall be standard and shall not have speed, shuttle shifting or tandem spinning restrictions for engaging/disengaging. System must be load-sensing for optimal performance. .
- Y\_\_\_ N\_\_\_ An Autoshift transmission shall be provided on all forward and reverse gears.
- 
- Y\_\_\_ N\_\_\_ Differential Lock/Unlock shall be electro-hydraulically controlled, as a standard feature.
- 
- Y\_\_\_ N\_\_\_ Differential Lock/Unlock shall be a multi-disc design.
- Y\_\_\_ N\_\_\_ Final drive shall be a planetary design.
- Y\_\_\_ N\_\_\_ Machine shall be equipped with an electronic inching pedal for improved modulation and machine control.

Y\_\_\_ N\_\_\_

Machine shall be equipped with electronic over-speed protection to prevent the engine and transmission from over speeding, as a standard feature.

Y\_\_\_ N\_\_\_

Machine shall have no drive shafts that cross over the articulation hitch.

### STEERING & IMPLEMENT CONTROLS

Y\_\_\_ N\_\_\_

Machine shall be steered by electro-hydraulic joystick controls. **No steering wheel**

Y\_\_\_ N\_\_\_

Secondary Steering shall be provided. **No Exception**

### HYDRAULIC SYSTEM

Y\_\_\_ N\_\_\_

Hydraulic implement pump shall produce between 0 and 55.5 gallon/min (210 L/min) of oil flow minimum at high idle.

Y\_\_\_ N\_\_\_

Hydraulics system shall be a closed center, load sensing type with a variable displacement, axial piston-type pump.

Y\_\_\_ N\_\_\_

The maximum hydraulic system pressure shall be no less than 2,750 psi.

Y\_\_\_ N\_\_\_

Implement valves shall be electro-hydraulic, designed and built by the machine manufacturer.

Y\_\_\_ N\_\_\_

Lock valves shall be integrated into the main implement valve to prevent cylinder drift.

Y\_\_\_ N\_\_\_

0W Hydraulic Oil shall be provided. **No Exception**

Y\_\_\_ N\_\_\_

Two hydraulic valves for the snow wing and three hydraulic valves for the front lift group shall be provided.

Y\_\_\_ N\_\_\_

Hydraulic system shall have a separate oil tank solely dedicated to the implement pump.

Y\_\_\_ N\_\_\_

Blade lift accumulators shall be provided.

Y\_\_\_ N\_\_\_

Blade float shall be activated on-the-go.

### TIRES AND RIMS

Y\_\_\_ N\_\_\_

17.5R 25 MX XSNO+ 1\* MP tires mounted on 14" x 25" multi-piece rims shall be provided.

### OPERATORS STATION

Y\_\_\_ N\_\_\_

A 42,075 BTU/h (12.3 kW) heater shall have an integral pressurizer and four-speed fan along with A/C.

Y\_\_\_ N\_\_\_

Cab shall have angled floor design allowing direct visibility to moldboard.

Y\_\_\_ N\_\_\_

Seat shall be a heated, cloth-covered air suspension seat with 3 in (76 mm) retractable seat belts, with adjustments for fore-aft position, seat height, seat back angle, thigh support, and lumbar support.

- Y\_\_\_ N\_\_\_ An enclosed cab with ROPS (Rollover Protective Structure) according to ISO 3471: 1986-1997 shall be provided.
- Y\_\_\_ N\_\_\_ Cab doors shall have a hold-open clasp with a ground-level release in addition to a release in the cab.
- Y\_\_\_ N\_\_\_ Cab shall be isolation-mounted to the front frame section of the machine.
- Y\_\_\_ N\_\_\_ Cab shall have fixed front window of laminated glass with intermittent wiper.
- Y\_\_\_ N\_\_\_ AM / FM / Weatherband radio arrangement including 24V to 12V converter, two speakers, antenna and wiring shall be provided.
- Y\_\_\_ N\_\_\_ An instrument cluster shall be provided that includes a speedometer, tachometer, coolant temperature, fuel and articulation angle gauge.
- Y\_\_\_ N\_\_\_ Operator cab fresh air-filter shall be accessible for clean out and replacement, from outside of the cab at ground level.
- Y\_\_\_ N\_\_\_ A real-time information system shall monitor all system data and alert the operator of any faults through a digital text display. This performance and diagnostic information system shall be programmable for multiple languages.
- Y\_\_\_ N\_\_\_ Left and right side cab doors shall be provided.
- Y\_\_\_ N\_\_\_ Wipers shall be provided on side and rear windows.
- Y\_\_\_ N\_\_\_ Digital machine hour meter shall be provided.
- Y\_\_\_ N\_\_\_ An electronic message system shall provide real-time machine performance and diagnostic data.
- Y\_\_\_ N\_\_\_ The forward visibility shall be continuous and unobstructed glass from roofline to floor providing visibility of the blade, heel and toe, back of the cutting edge, and front tires.
- Y\_\_\_ N\_\_\_ Access to cab shall be three anti-skid steps.
- Y\_\_\_ N\_\_\_ Cab shall have cup holder, personal cooler holder/storage compartment for operator's manual, with a molded floor mat.
- Y\_\_\_ N\_\_\_ Window washer fluid bottle refill spout shall be located external of the cab.
- Y\_\_\_ N\_\_\_ Integrated display and rear vision camera shall be provided with capability to view at all times without interfering with the gauge and diagnostic display.
- Y\_\_\_ N\_\_\_ A rear sun shade shall be provided.
- Y\_\_\_ N\_\_\_ A rear defroster fan shall be provided.
- Y\_\_\_ N\_\_\_ Integrated Cross Slope System shall be provided from the factory in order to ensure proper calibration and installation for improved accuracy and performance.

## **CIRCLE & MOLDBOARD**

- Y\_\_\_ N\_\_\_ The standard moldboard shall be at least 14 ft (4267 mm) long, 27 in (686 mm) high and no less than 1 in (25 mm) thick.
- Y\_\_\_ N\_\_\_ Moldboard shall have a bank slope angle capability of at least 90 degrees to both sides.
- Y\_\_\_ N\_\_\_ Moldboard shall have a hydraulic tip control.
- Y\_\_\_ N\_\_\_ Blade lift and center shift cylinders shall have replaceable bronze-alloy wear inserts in the ball sockets with removable shims to insure the ability to remove free play throughout the useful wear insert life.
- Y\_\_\_ N\_\_\_ The lift cylinder casting shall be welded to the front frame for added strength and structural integrity.
- Y\_\_\_ N\_\_\_ The standard mounting hardware for cutting edges and end bits shall be 3/4 in (19 mm).
- Y\_\_\_ N\_\_\_ All 7 Link Bar positions have replaceable bushings.

- Y\_\_\_ N\_\_\_ Linkbar pin shall be separate from pin pulling mechanism for easier service and lower O&O costs.
- Y\_\_\_ N\_\_\_ The draft frame pivot connection shall have a single ball stud with grease zerk. Ball stud shall be bolt-on, shimable and adjustable to allow for quick and easy field serviceable design.
- Y\_\_\_ N\_\_\_ Blade lift accumulators shall be provided, protecting cutting edge and other components from damage from shock loads.

**ELECTRICAL**

- Y\_\_\_ N\_\_\_ Machine shall have 1400 CCA heavy-duty batteries.
- Y\_\_\_ N\_\_\_ Machine shall have a minimum 150-amp alternator at 24 volts provided which is brushless for increased life and durability.
- Y\_\_\_ N\_\_\_ Six 3 x 3 in (76 x 76 mm) halogen mounted cab lights shall be provided.
- Y\_\_\_ N\_\_\_ Starting system shall be a 24V direct electric type.
- Y\_\_\_ N\_\_\_ Incandescent white reversing lamps and LED stop lamps shall be provided.
- Y\_\_\_ N\_\_\_ Electrical system shall have a master disconnect switch with a removable key (in addition to the ignition switch), accessible from the ground level.
- Y\_\_\_ N\_\_\_ All core machine systems shall be electronically connected, optimizing performance and preventing machine damage.
- Y\_\_\_ N\_\_\_ All wiring shall be arranged and located so as to facilitate regular visual inspections, not be in contact with hot surfaces and not routed with other services lines (e.g. fuel, oil, etc.).
- Y\_\_\_ N\_\_\_ All harnesses / cabling are secured with clipping clamps providing a gap between the conduit/harness and the mounting surface preventing material build-up.
- Y\_\_\_ N\_\_\_ There will be 2 (3 x 3 in) (76 x 76 mm) halogen mounted on the right-hand side of car roof bar to illuminate a snow wing shall be provided.
- Y\_\_\_ N\_\_\_ There will be 2 (3 x 3 in) (76 x 76 mm) halogen heel work lamps mounted underneath the cab shall be provided.
- Y\_\_\_ N\_\_\_ There will be 2 (3 x 3 in) (76 x 76 mm) halogen mid-frame toe lamps shall be provided to illuminate moldboard and surrounding area as an option.
- Y\_\_\_ N\_\_\_ There will be 2 (3 x 3 in) (76 x 76 mm) halogen ripper work lamps shall be provided.
- Y\_\_\_ N\_\_\_ High and low bar headlights with front turn signals shall be provided.
- Y\_\_\_ N\_\_\_ An amber LED high-speed strobe beacon shall be provided.
- Y\_\_\_ N\_\_\_ A 24V to 12V converter with 25-amp capacity shall be provided.

**SERVICEABILITY**

- Y\_\_\_ N\_\_\_ Access to engine will be open from both sides with hinged engine side shields and full access service doors.

- Y\_\_\_ N\_\_\_ Machine shall have a lockable swing-out cooling fan housing featuring a latch-style mechanism (shall not be of a bolted design), allowing easy access to cores. Ability to open/close shall be ground level accessible, eliminating need to climb on machine.
- Y\_\_\_ N\_\_\_ The dip stick for checking transmission fluid shall be at ground level.
- Y\_\_\_ N\_\_\_ Hydraulic tank site gauge shall be readable from the ground.
- Y\_\_\_ N\_\_\_ Hydraulic tank filter shall be a cartridge style filter providing a separate filter element, housing, and drain valve for quick and clean servicing.
- Y\_\_\_ N\_\_\_ Ability for ground level fueling shall be provided.
- Y\_\_\_ N\_\_\_ Sampling ports shall be accessible from the tandem level and provide access to the engine, hydraulic, coolant, and fuel ports.
- Y\_\_\_ N\_\_\_ A two-way communication tool shall give service technicians easy access to stored diagnostic data and allow configuration of machine parameters.
- Y\_\_\_ N\_\_\_ Machine shall provide 3 points of contact on all areas of the machine, for mounting and dismounting.
- Y\_\_\_ N\_\_\_ The articulation joint shall have mechanical locking device to prevent frame articulation while servicing or transporting machine.
- Y\_\_\_ N\_\_\_ Left and right side tandem case assemblies shall be covered with punched steel plate to provide an adequate platform for standing and walking.
- Y\_\_\_ N\_\_\_ Engine oil filter shall be a 500 hour, vertical spin-on
- Y\_\_\_ N\_\_\_ Engine primary and final fuel filters shall have 500 hour service replacement interval.
- Y\_\_\_ N\_\_\_ Engine shall have primary fuel filter with fuel water separator and electronic sensor, quick release dual stage filter and primer pump.
- Y\_\_\_ N\_\_\_ The centralized lube bank shall be at the articulation joint to give access to difficult zerks.
- Y\_\_\_ N\_\_\_ Transmission filter restriction indicator shall be displayed in the cab.
- Y\_\_\_ N\_\_\_ A circle drive slip clutch shall be provided to reduce horizontal moldboard impact damage.
- Y\_\_\_ N\_\_\_ Black glare-reducing paint shall be used on the front frame and engine enclosure to decrease glare from other equipment lights and reflection from the sun and snow.
- Y\_\_\_ N\_\_\_ Operator not present monitoring system will lockout implements, shall not allow gear shift out of neutral, and lock parking brake if system detects operator not present for increased safety.
- Y\_\_\_ N\_\_\_ Hydraulic implement lockout shall be achieved by actuating a single electrical switch within the operator station.
- Y\_\_\_ N\_\_\_ An external emergency kill switch shall be available for ground level engine shut down.
- Y\_\_\_ N\_\_\_ Machine shall have laminated glass for the front windows and doors, to protect the operator from shattered glass.
- Y\_\_\_ N\_\_\_ Machine shall provide dual exits allowing for emergency egress should one side become obstructed.
- Y\_\_\_ N\_\_\_ Electrical system shall have a master disconnect switch with a removable key and lock for added safety. (In addition to the ignition switch).
- Y\_\_\_ N\_\_\_ Machine shall have back-up lights and sounding alarm when reverse gears are selected.
- Y\_\_\_ N\_\_\_ Environmentally friendly drain valves shall be provided for the hydraulic oil, engine oil, engine coolant, transmission, differential and fuel tank.
- Y\_\_\_ N\_\_\_ Cooling fan shall have both a shroud and rear grill for protection during service.
- Y\_\_\_ N\_\_\_ Machine shall allow cab interior and exterior lights to remain on separate from ignition switch, for safe exit of the machine during night operation.
- Y\_\_\_ N\_\_\_ Engine and transmission shall be rubber isolation mounted to reduce noise and vibration.

Y\_\_\_ N\_\_\_

Two outside mounted heated mirrors shall be provided.

### OPTIONAL ATTACHMENTS

Y\_\_\_ N\_\_\_

Rear ripper shall have 5 ripper shank holders with shanks and 9 scarifier shank holders with scarifier teeth.

Y\_\_\_ N\_\_\_

Three (3) ripper shanks and nine (9) scarifier teeth shall be provided.

Y\_\_\_ N\_\_\_

Front & rear fenders shall meet ISO-3457 requirements and shall not interfere with the ability to fully open any cab/engine enclosure or service access doors shall be provided.

Y\_\_\_ N\_\_\_

All core machine systems shall be electronically connected optimizing performance and preventing machine damage.

Y\_\_\_ N\_\_\_

Machine shall have no drive shafts that cross over the articulation hitch.

Y\_\_\_ N\_\_\_

An integrated communication tool providing flow of vital machine data and location shall be available. This system shall give automatic updates on machine parameters such as machine hours, machine condition, location, fault codes and alarms.

Y\_\_\_ N\_\_\_

Capital I Industries or equivalent 12 ft All Hydraulic Snow Wing Installed.

Y\_\_\_ N\_\_\_

Articulation guard shall be provided.

Y\_\_\_ N\_\_\_

Additional hydraulic lines from the ripper valve to the back of the machine shall be provided.

Y\_\_\_ N\_\_\_

A Balderson-style hydraulic front lift group shall be provided.

### ALL WHEEL DRIVE SYSTEM

Y\_\_\_ N\_\_\_

All Wheel Drive system shall be useable in 1F thru 7F and 1R thru 5R gears.

Y\_\_\_ N\_\_\_

All Wheel Drive system – Each front wheel shall be powered utilizing a dedicated variable axial piston pump and variable axial piston motor. Both pumps and motors shall be infinitely variable to provide up to maximum torque in every gear.

Y\_\_\_ N\_\_\_

All Wheel Drive system shall automatically vary individual front wheel speeds by up to 50% during a turn, improving front wheel traction and reducing turning radius.

Y\_\_\_ N\_\_\_

All Wheel Drive system shall produce a max torque of no less than 1,000 lb ft. (1355 Nm).

Y\_\_\_ N\_\_\_

All Wheel Drive system shall provide a hydrostatic front wheel drive only mode neutralizing the transmission for precise low-speed performance. The ground speed shall be infinitely variable between 0 and 5 mph (8 km/h)

LIST EXPLANATIONS FOR ANY “NO” ANSWERS BELOW IF CONSIDERATION IS DESIRED.

## **WARRANTY & AVAILABILITY GUARANTEE**

In order to guarantee the cost of repairs and minimize downtime for the County, all bidders shall include with their bid:

A total machine warranty, including parts and labor for required repairs, for a period of seven (7) years seven thousand (7,000) hours, whichever occurs first, from date of delivery. Warranty repairs will be provided during regular working hours. If the County requests that work be done outside of regular working hours, which results in overtime, the County will pay the differential between regular time and overtime wage. Lodging, meals, travel time, parts, freight and any transportation of units between County and seller will be at seller's expense.

County will provide seller with Scheduled Oil Sampling for analysis from date of delivery. Seller will provide the oil sample bottles & the expense of the processing the oil samples.

Annual machine inspections and adjustments, as prescribed in the maintenance guides, shall be performed in the field (County's location), unless prior more convenient arrangements are made.

95% Guaranteed Machine Availability. Bidder guarantees that the machine shall be operable and available for use by the County for at least 95% of the County's work year, which shall be calculated based on a 2080 hour work year. After any continuous downtime, which exceeds 40 work week hours, Seller shall provide County with a replacement machine that is comparable to the motor grader purchased under this bid proposal. If seller fails to provide County with a comparable replacement machine, County shall charge seller with an hourly assessment of \$60.00 per hour for any downtime in excess of 5% of the work year; such assessment shall be made on the anniversary date of delivery.

County shall make the machines available for repairs and inspection upon reasonable request and notice by the successful bidder.



AFFIDAVIT AND INFORMATION REQUIRED OF BIDDERS

**AFFIDAVIT OF NON-COLLUSION**

I hereby swear (or affirm) under the penalty; for perjury;

- (1) That I am the bidder (if bidder is an individual), a partner in the bidder (if the bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the bidder is a corporation);
- (2) That the attached bid or bids have been arrived at by the bidder independently, and have 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 invitation to bid, designed to limit independent bidding or competition;
- (3) That the contents of the bid or bids 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 or bids, and will not be communicated to any such person prior to the official opening of the bid or bids; and \
- (4) That I have fully informed myself regarding the accuracy of the statements made in this affidavit.

**SIGNED:** \_\_\_\_\_

**FIRM NAME:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

-----  
**SUBSCRIBED AND SWORN TO BEFORE ME**

**THIS** \_\_\_\_\_ **DAY OF** \_\_\_\_\_, **20** \_\_\_\_\_.

**NOTARY PUBLIC**

\_\_\_\_\_  
Print name:

My commission expires: \_\_\_\_\_

**BIDDER'S E.I NUMBER:** \_\_\_\_\_

**(Number used on Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941)**

## **BIDDER'S CHECKLIST**

**Please be sure you have completed the following prior to submitting your bid:**

1. Read and understood the specifications.
2. Enclosed all documents listed in the Bidder's Submission Requirements (p.5 of Bid Package).
3. Made yourself familiar with any State laws that pertain to this bid.
4. Asked any questions, and received answers, regarding the bid procedure, specifications, or general information.

**\*\*\* NOTE: Any bid that is not properly addressed (including bidders phone no.), or that is delivered past the date and time indicated on the invitation to bid, will be invalid and will not be opened or considered.\*\*\***