

# **BIDDER'S PACKAGE**

JUDITH BASIN COUNTY

SOLICITATION FOR BIDS FOR  
ONE (1) NEW 2018 OR NEWER MOTORGRADER

April 2018

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## INVITATION TO BIDDERS

NOTICE IS HEREBY GIVEN, that the Judith Basin County Board of Commissioners will receive sealed bids for the purchase over time of one (1) new 2018, or newer, diesel powered, articulated frame motor grader. Contact Amanda Kelly Clerk and Recorder, 91 3rd Street North, Stanford, MT (406) 566-2277 ext. 109, to obtain specifications for the equipment.

Bids will be opened on the 11 day of April, 2018, at the time of 1:00 o'clock p.m. in the office of the Board of Commissioners, in the Judith Basin County Courthouse, Stanford, MT

Each bid must be accompanied by a Certified Check, Cashier's Check, or Bid bond payable to Judith Basin County in the amount of ten percent (10%) of the total amount of the bid for the motor grader without deduction for the value of the possible trade in equipment. The successful bidder shall forfeit to Judith Basin 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 thirty (30) days from the date of opening. Judith Basin 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 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 Judith Basin County.

DATED this 21st day of March, 2018.

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Cody McDonald, Chairman  
Judith Basin County Board of Commissioners

(Publish March 29 and April 5, 2018.)

## GENERAL INFORMATION FOR BIDDERS

1. Bid Opening. The Judith Basin County Commissioners will receive bids from persons or entities capable of supplying one (1) new 2018 or newer diesel powered, articulated frame 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 11 day of April, 2018, at the time of 1:00 o'clock p.m. at the Commissioners Office, in the Judith Basin County Courthouse. All bids must be received no later than the start of the meeting.

2. Notice. Notice is being published in the Judith Basin Press, (a copy of the notice is included with this package) with publication dates of March 29 and April 5, 2018. 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 Judith Basin 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 Judith Basin 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 Judith Basin County. The form of the contract is included within this package. However, Judith Basin 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 thirty (30) days from the date of opening at some time during said thirty (30) day period, the successful bidder will be expected to enter into the contract.

5. Waiver of irregularities and informalities. Judith Basin County reserves the right to waive any irregularity or informality in any bid. Further, Judith Basin 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 Judith Basin County with similar or related equipment.

7. Resident Bidder Preference. Pursuant to Section 18-1-102, Montana Code Annotated, Judith Basin County will award the contract “to the most 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 for the equipment that Judith Basin County may wish to trade in, and which will reduce the purchase price. The equipment is one (1) used 2005 CAT 143H Motor Grader, Serial # APN00625. The value stated by the bidder for the motor grader must be stated separately on the Bid Form. In accepting the bid from the successful bidder, Judith Basin County may elect to trade any, all or none of the used equipment, and if Judith Basin County elects to trade in any such item, the successful bidder shall receive such equipment at the time of delivery of the new motor grader. The successful bidder will be responsible for transporting any such equipment from Judith Basin 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 Supervisor Roger Riley. 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 new motor grader.

11. Warranty. In order to guarantee the cost of repairs and minimize downtime for Judith Basin County, all bidders shall include with their bid a powertrain warranty, including parts and labor for required repairs, for a period of six (6) years or five thousand (5,000) 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 Amanda Kelly, 91 3<sup>rd</sup> Street North, Stanford, MT Phone No. (406) 566-2277Ext. 109. 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 Judith Basin County.

## BIDDER'S SUBMISSION REQUIREMENTS

Sealed bids shall be submitted by each bidder. Sealed bids must be received by Judith Basin County no later than 1:00 o'clock p.m., April 11, 2018, 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 Judith Basin County for Motor Grader".

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

1. Bid Forms. The Bid Form and Bid Form for Repurchase Amounts 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. If full delivery is not made by such date, the parties hereby agree that Judith Basin County shall be entitled to liquidated damages in the amount of \$50.00 for each day past such delivery date until full delivery takes place. Judith Basin County may choose to waive its receipt of liquidated damages. Delivery shall be F.O.B. Judith Basin County Shop at Stanford, 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) 2018 or newer diesel powered, articulated frame motor grader, 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. Judith Basin County Shop at Stanford, Montana. \$ \_\_\_\_\_

Proposed trade value of used 2005 Caterpillar 143H motor grader,  
SN: APN00625 if Judith Basin County should elect to trade in. \$ \_\_\_\_\_

Option

12 ft. Henke or equal all hydraulic “short post” snow wing installed. \$ \_\_\_\_\_

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

Current Governmental Fixed Interest Rate: \_\_\_\_\_%.

**NOTE:** JUDITH BASIN 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 2018 or newer diesel powered, articulated frame, tandem drive motor grader, the following minimum requirements, or substantially similar equivalents, shall be met:

- A. Motor grader 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. Judith Basin County Shop at Stanford, Montana.
- D. Upon delivery, the successful bidder shall include all operating, service, parts and technical repair manuals.
- 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 CONFIGURATIONS. ANY "NO" MUST BE CLARIFIED ON A SEPARATE SHEET IF THE BIDDER DESIRES SUPPORT FOR AND ALTERNATE OR SUBSSTANTIALLY SIMILAR SPECIFICATION.**

## MINIMUM SPECIFRICATIONS FOR MOTOR GRADERS

### **BASIC SPECIFICATIONS**

- Y\_\_\_ N\_\_\_ Machine shall be designed and built by the manufacturer.
- Y\_\_\_ N\_\_\_ Base Machine Weight shall not be less than 40380 lbs (18,316 kg). Weight shall include standard machine configuration, lubricants, coolants, full fuel tank and operator of 200 lbs (91 kg).
- Y\_\_\_ N\_\_\_ Machine height to top of the cab shall not exceed 130 in (3,308 mm).
- Y\_\_\_ N\_\_\_ Machine length from the front outside edge tire to end of tow hitch shall not be less than 351 in (8,912 mm).
- Y\_\_\_ N\_\_\_ Machine Wheel Base (distance from front axle to mid tandem) shall not be less than 241 in (6123 mm).
- Y\_\_\_ N\_\_\_ The rear frame shall have two box section channels with an integrated bumper as standard.

- Y\_\_\_ N\_\_\_ A toolbox shall be provided.
- Y\_\_\_ N\_\_\_ Machine shall have vandal protection standard including locks for cab doors, engine side shields (4), top tank radiator access door, engine coolant surge tank, hydraulic reservoir cap, fuel tank cap and toolbox.

## 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 and European Union Stage IV
- 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 9.3L (568 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 220 HP (164 kW) in 1st gear, 241 HP (180 kW) in 2nd gear, 247 HP (184 kW) in 3rd gear, 252 HP (188 kW) in 4th gear, and 272 HP (203 kW) in gears 5 through 8.
- Y\_\_\_ N\_\_\_ Engine will increase its low idle speed to 1,000 rpm when the battery voltage is below 24.5 volts for more than 5 minutes to ensure adequate system voltage and battery reliability.
- Y\_\_\_ N\_\_\_ Altitude deration will not occur at altitudes less than 10,000 ft (3050 m). The deration rate above 10,000 ft (3050 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 2000 rpm.
- Y\_\_\_ N\_\_\_ Engine will have a minimum torque rise of 47% from 2000 rpm to peak torque following SAE J1349 (net power with max fan).
- 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 fan shall automatically adjust fan speed via a variable hydraulic fan pump to meet engine cooling requirements thus reducing demand on the engine, putting more horsepower to the ground, reducing noise, improving fuel economy, and reducing heat.
- Y\_\_\_ N\_\_\_ Engine shall allow for at least 500 hours of operation between oil changes.
- Y\_\_\_ N\_\_\_ SY-KLONE engine pre-cleaner shall be provided.
- Y\_\_\_ N\_\_\_ Engine compartment doors shall be lockable without the use of external locks.
- Y\_\_\_ N\_\_\_ Engine shall automatically lower engine torque and alert the operator if critical conditions are detected.
- Y\_\_\_ N\_\_\_ Engine shall have an air-to-air after cooler for superior engine performance.
- Y\_\_\_ N\_\_\_ Engine oil cooler shall be a water to oil shell and tube cooler system.
- Y\_\_\_ N\_\_\_ Machine shall have a 12000 hour coolant interval from factory.
- Y\_\_\_ N\_\_\_ Minimum of 150-amp alternator shall be provided.
- Y\_\_\_ N\_\_\_ The charged air cooler (ATAAC) shall have 6 fins per inch.
- Y\_\_\_ N\_\_\_ Economy mode shall be provided directly from factory to increase net efficiency.
- Y\_\_\_ N\_\_\_ Economy mode shall be able to be enabled and disabled by the operator through the onboard Message Display.
- Y\_\_\_ N\_\_\_ -60F rated engine coolant shall be provided.
- Y\_\_\_ N\_\_\_ DEF tank reservoir shall have a heater to thaw DEF fluid.
- Y\_\_\_ N\_\_\_ DEF lines should be heated to prevent freezing during extremely cold ambient conditions.

- Y\_\_\_ N\_\_\_ An 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.

**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 0-10.6 mph (0-17.1 km/h), for dirt applications.
- Y\_\_\_ N\_\_\_ Transmission shall be isolated/resilient mounted to reduce sound and vibration.
- Y\_\_\_ N\_\_\_ A controlled throttle shifting system shall be standard to smooth directional gear changes without use of the inching pedal.
- Y\_\_\_ N\_\_\_ Electronic Throttle Control (cruise control) shall be standard and shall be controlled by a push button, located on a 3-axis joystick as standard on the right joystick control for resuming and decreasing throttle set.
- Y\_\_\_ N\_\_\_ Electronic Throttle Control modes, set and accelerate functions, shall be located on the right control column for easy access.
- 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\_\_\_ Automatic mode shall not be overridden via manual intervention for optimal performance and to prevent unintended differential engagement
- 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\_\_\_ The rear axle shall be a bolt-on modular design offering easy access to differential components, improving serviceability and contamination control.
- Y\_\_\_ N\_\_\_ The total surface area of all the transmission clutch packs shall not be less than 1831 in<sup>2</sup> (11,812cm<sup>2</sup>).
- Y\_\_\_ N\_\_\_ Diameter at the output end of the transmission shaft shall be no less than 2.29 in (58.1 mm).
- 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.
- Y\_\_\_ N\_\_\_ An autoshift transmission option shall be provided on all forward and reverse gears.

**STEERING & IMPLEMENT CONTROLS**

- Y\_\_\_ N\_\_\_ Steering wheel shall not be required to operate machine.
- Y\_\_\_ N\_\_\_ Joystick Steering capabilities shall be ISO 5010:1992.
- Y\_\_\_ N\_\_\_ Machine shall employ a friction pack style steering mechanism, utilizing the follow steer concept.

- Y\_\_\_ N\_\_\_ The left 3-axis joystick shall control wheel lean with individual left and right wheel lean buttons as standard.
- Y\_\_\_ N\_\_\_ Primary steering shall be achieved via a left-hand, multifunction, 3-axis joystick as standard, using an intuitive steering control system that automatically adjusts steering sensitivity as machine ground speed increases.
- Y\_\_\_ N\_\_\_ Articulation to the right or left shall be achieved by a multifunction, 3-axis left joystick with the twist of such to the right or left by the left-hand, multifunction, 3-axis joystick.
- Y\_\_\_ N\_\_\_ An articulation return-to-center button on the left-hand, multifunction, 3-axis joystick shall return the machine to a straight frame position from any articulation angle with the touch of a single button.
- Y\_\_\_ N\_\_\_ The right 3 axis joystick shall primarily control the Drawbar, Circle, and Moldboard.
- Y\_\_\_ N\_\_\_ Machine, Drawbar, Circle, and Moldboard shall be control shall be achieved via a right hand multifunction, 3-axis, joystick, including moldboard slide and tip, drabar center shift through a 4 way hat switch and circle turn by a left or right twist intuitively.
- Y\_\_\_ N\_\_\_ Blade lift cylinders shall be individually controlled by the multifunction, 3 axis joysticks; Lift and drop of cylinders shall be achieved by the forward and back motion of the respective joystick. Forward(left joystick) lowers left lift cylinder, back(left joystick)raises the left lift cylinder, forward(right joystick) lowers the right right lift cylinder, back(right joystick) raises the right lift cylinder.
- Y\_\_\_ N\_\_\_ Joystick controls shall be mounted to electronically adjustable pedestals, which are hard mounted to the cab floor, independent of the operator seat.
- Y\_\_\_ N\_\_\_ Secondary steering shall have a primary and secondary power supply in the event the primary source is lost.
- Y\_\_\_ N\_\_\_ Transmission direction control shall be a 3-position rocker switch for selecting forward, neutral, and reverse incorporated into a single, 3-axis, multi-function, left-hand joystick control.
- Y\_\_\_ N\_\_\_ Transmission gear selection shall be controlled by dual push buttons for up shifting and downshifting and shall be incorporated into a single, 3-axis, multi-function, left-hand joystick control.
- Y\_\_\_ N\_\_\_ Manual Differential Lock/Unlock shall be operator controlled, via a push-button, located on a single, 3-axis, multi-function, right-hand joystick control.
- Y\_\_\_ N\_\_\_ The machine shall have two redundant articulation sensors.
- Y\_\_\_ N\_\_\_ Two redundant sensors shall be standard in the steering cylinders (one in each).
- Y\_\_\_ N\_\_\_ Three redundant sensors shall be provided in the steering joystick for additional safety.

## **BRAKES**

- Y\_\_\_ N\_\_\_ Machine shall have primary and secondary service brakes.
- Y\_\_\_ N\_\_\_ Entire braking system shall meet all requirements of ISO 3450: 1996.
- Y\_\_\_ N\_\_\_ Two separate left and right hydraulic brake accumulators shall be standard for safety.
- Y\_\_\_ N\_\_\_ Parking brake shall be multi-disc, oil-cooled, spring-applied, hydraulically released, sealed, adjustment-free, and integrated into the transmission. Park brake shall not be externally located.
- Y\_\_\_ N\_\_\_ Parking brake shall be serviceable without removing the transmission.
- Y\_\_\_ N\_\_\_ Service brakes shall be multi-disc, oil-cooled and completely sealed; they will also provide access to check and determine brake wear without removing or disassembling the brake assembly.
- Y\_\_\_ N\_\_\_ Service brake disc surfaces shall be grooved and carry oil between discs and plates with brakes fully applied.

- Y\_\_\_ N\_\_\_ Service brakes shall be hydraulically actuated, utilizing dual independent brake circuits.
- Y\_\_\_ N\_\_\_ Brakes shall be continuously pressurized, filtered, oil cooled.
- Y\_\_\_ N\_\_\_ Machine shall have individual brake pods for each rear wheel, located at each rear wheel inside the tandem box, independent of tandem chains.
- Y\_\_\_ N\_\_\_ Compensation components shall be required at all four tandem brake pods in addition to the brake wear indicator.
- Y\_\_\_ N\_\_\_ Brake line protection, including tandem walkways and hydraulic brake line guarding, shall be required to prevent line damage.
- Y\_\_\_ N\_\_\_ Service brakes shall provide a minimum of 620 in<sup>2</sup> (4,003 cm<sup>2</sup>) of friction material surface area at each of the four tandem wheels to eliminate braking loads on the power train.

### HYDRAULIC SYSTEM

- Y\_\_\_ N\_\_\_ A standard triple-redundant hydraulic relief system shall protect machine hydraulic components.
- Y\_\_\_ N\_\_\_ Hydraulic implement pump shall produce between 0 and 55.7 gal/min (210 L/min) of oil flow at 1,800 RPM.
- Y\_\_\_ N\_\_\_ Hydraulics system shall be a closed center, load sensing type with a variable displacement, axial piston-type pump.
- Y\_\_\_ N\_\_\_ Hydraulic system shall be fully sealed, using Duo-cone and O-ring face seals to prevent leaks, contamination, and spillage.
- Y\_\_\_ N\_\_\_ The hydraulic tank shall have a baffling system to reduce potential pump cavitation.
- Y\_\_\_ N\_\_\_ The maximum hydraulic system pressure shall be no more than 3,500 psi (24,150 kPa).
- Y\_\_\_ N\_\_\_ Implement valves shall be electro-hydraulic, designed and built by the machine manufacturer.
- Y\_\_\_ N\_\_\_ Implement pump shall not be mounted under cab floor, minimizing sound and vibration.
- Y\_\_\_ N\_\_\_ Implement valves shall be proportional priority pressure compensating for consistent response when multi-functioning any combination of implement controls and independent of engine speed.
- Y\_\_\_ N\_\_\_ Implement pump shall be solely dedicated to implement controls and not shared with any other components.
- Y\_\_\_ N\_\_\_ Lock valves shall be integrated into the main implement valve to prevent cylinder drift.
- Y\_\_\_ N\_\_\_ Two additional hydraulic valves & hoses shall be provided for snow wing. One additional hydraulic valve with hoses shall be provided for front lift group.
- Y\_\_\_ N\_\_\_ There shall be a provision to install up to 15 modulating hydraulic valves, controlled by two multifunction, 3-axis joystick controls and auxiliary controls inside the cab.
- Y\_\_\_ N\_\_\_ Synthetic 0W hydraulic oil shall be provided **(No exceptions)**
- Y\_\_\_ N\_\_\_ Left and right blade lift cylinders shall have independent float capability, actuated by two multifunction, 3-axis joystick controls inside the cab, as a standard feature.
- Y\_\_\_ N\_\_\_ A sight gauge will be provided for checking hydraulic reservoir fluid.
- Y\_\_\_ N\_\_\_ Hydraulic oil change service interval shall be no less than 6000 hours with oil sampling
- Y\_\_\_ N\_\_\_ Hydraulic system shall have a separate oil tank solely dedicated to the implement pump.

## FRONT AXLE AND TANDEM

- Y\_\_\_ N\_\_\_ Front axle oscillation shall be no less than 32 degrees total, per side 16 degrees up and 16 degrees down.
- Y\_\_\_ N\_\_\_ Front axle shall be an arched design for maximum ground clearance.
- Y\_\_\_ N\_\_\_ Wheel spindle shall be a "live" spindle design and rotate inside a sealed (with Duo-Cone seals) compartment with lightweight oil for lubrication of the bearings.
- Y\_\_\_ N\_\_\_ Front spindle shall be heat induction hardened.
- Y\_\_\_ N\_\_\_ Front wheel spindle bearings shall be a double-tapered design with the larger diameter bearing mounted closest to the centerline of the front tire.
- Y\_\_\_ N\_\_\_ Front wheel spindle maintenance intervals shall be no less than 2000 hrs.
- Y\_\_\_ N\_\_\_ Front wheel steering angle shall be no less than 50.0 degrees left or right.
- Y\_\_\_ N\_\_\_ Maximum front wheel lean shall be no less than 18 degrees left or right.
- Y\_\_\_ N\_\_\_ Machine turning radius shall not exceed 25 ft. 7 in. (7.8 m) using front steering, full articulation and unlocked differential.
- Y\_\_\_ N\_\_\_ Distance between center of tandem wheels shall be no greater than 60.0 in (1523 mm) for optimum clearance and mobility.
- Y\_\_\_ N\_\_\_ Tandem drive chain pitch shall not be less than 2.0 in (50.8 mm).
- Y\_\_\_ N\_\_\_ Tandems shall be capable of oscillating 15 degrees front tandem up and 25 degrees front tandem down, with full machine articulation and having no interference between tandem wheel and machine structure.
- Y\_\_\_ N\_\_\_ Electronic and mechanical steering stops located at each wheel and steering cylinder relief valves shall be present to prevent steering system damage during normal operation.
- Y\_\_\_ N\_\_\_ Steering tie rod ends shall be heat induction hardened.
- Y\_\_\_ N\_\_\_ Machine shall provide 2 steering cylinders for maximum steering force.
- Y\_\_\_ N\_\_\_ When equipped with a ripper, the machine shall have a minimum ramp angle of 15.9 degrees.

## TIRES AND RIMS

- Y\_\_\_ N\_\_\_ A 10 in (25.4 cm) by 24 in (60.96 cm) size 3-piece tire rim shall be standard to provide mounting for 14.00-24 tires and 14.00R24 conventional tires
- Y\_\_\_ N\_\_\_ Michelin 14.0R24 MX XSNO+ Tires 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\_\_\_ 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\_\_\_ Machine shall have no less than 17 adjustable vents, positioned to direct air to front windows and operator.
- Y\_\_\_ N\_\_\_ Radio ready arrangement will include 24V to 12V converter, two speakers, antenna and wiring.
- 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 Grade Control X Slope system fully integrated into the machine design with integral hydraulic and electrical components shall be provided from factory.
- 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\_\_\_ AM/FM, 12V, Weatherband, Bluetooth, USB, Aux Input Radio 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\_\_\_ DEF gauge must be visible to the operator at all times.
- Y\_\_\_ N\_\_\_ Manufacturer must provide Stable Grade sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface
- Y\_\_\_ N\_\_\_ An auxiliary control pod, with implement float control capability, shall be provided.
- Y\_\_\_ N\_\_\_ Auxiliary controls shall be provided for control of attachment implements and/or work tools and shall be programmable via computer software.
- Y\_\_\_ N\_\_\_ Auxiliary controls shall be a finger-tip control type and located beside the right-hand joystick control.
- Y\_\_\_ N\_\_\_ An auxiliary, 2-axis joystick shall be provided for control of a snow wing.
- 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.
- Y\_\_\_ N\_\_\_ Rear vision camera with in cab display shall be provided.
- Y\_\_\_ N\_\_\_ A rear sun shade shall be provided.
- Y\_\_\_ N\_\_\_ A rear defroster fan shall be provided.
- Y\_\_\_ N\_\_\_ An air suspension seat with heat shall be provided.

### **CIRCLE & MOLDBOARD**

- Y\_\_\_ N\_\_\_ Drawbar, circle, and moldboard shall be controlled with a maximum of two multifunction, 3-axis joysticks, as standard.
- Y\_\_\_ N\_\_\_ Drawbar wear strips shall be replaceable drop-in inserts made from nylon composite material, replaceable and adjustable from the top of the drawbar plate via removable cover plates.
- Y\_\_\_ N\_\_\_ The drawbar shall feature welded protective wear plates to prevent lift group contact with the primary drawbar structure.
- Y\_\_\_ N\_\_\_ Moldboard shall have a bank slope angle capability of at least 90 degrees to both sides.
- Y\_\_\_ N\_\_\_ Moldboard side-shift cylinder shall be installed on the left-hand side to prevent snow wing interference with the cylinder rod.
- Y\_\_\_ N\_\_\_ Moldboard shall have no less than 16.3 in (413 mm) arc radius (blade curvature) for optimum productivity.

- Y\_\_\_ N\_\_\_ The moldboard retention system shall have no more than two retention points located on the left and right side of the moldboard. The surface area shall not be less than 50408 mm<sup>2</sup> (78.13 in<sup>2</sup>).
- Y\_\_\_ N\_\_\_ Moldboard shall have a hydraulic tip control through a range of 40 degrees fore and 5 degrees aft.
- Y\_\_\_ N\_\_\_ Moldboard wear strips shall be adjusted with lock screws, providing shim-less adjustment capability both vertical & horizontal.
- Y\_\_\_ N\_\_\_ The moldboard shall be pre-stressed during manufacturing for superior strength and durability.
- Y\_\_\_ N\_\_\_ Moldboard slide rails shall be constructed of a heat-treated, high carbon steel and have replaceable bronze alloy wear inserts on top and bottom.
- Y\_\_\_ N\_\_\_ Circle shall be a single piece, rolled-ring forging with raised wear surfaces on the top and bottom.
- Y\_\_\_ N\_\_\_ Circle shall be rotated by a hydraulically driven motor (pinion gear) with a minimum circle pinion torque capability of 44253 ft-lb (60,000 N-m).
- Y\_\_\_ N\_\_\_ Circle teeth contact surfaces shall be induction-hardened on the front 240 degrees of the circle.
- 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\_\_\_ There shall be 3 sideshift anchor positions shall be provided for extended reach capability as standard.
- Y\_\_\_ N\_\_\_ Pinion Gear shall be separate from the Pinion Shaft to allow for a quick and easy serviceable design.
- Y\_\_\_ N\_\_\_ Circle outside diameter shall be no less than 60.2 in (1530 mm).
- Y\_\_\_ N\_\_\_ Throat clearance with standard moldboard shall be at least 166 mm.
- Y\_\_\_ N\_\_\_ There will be no more than 6 replaceable wear inserts between the circle and drawbar providing at least 163 in<sup>2</sup> (1051 cm<sup>2</sup>) of wear surface area.
- Y\_\_\_ N\_\_\_ A 14 ft (4267 mm) long, 27 in high and no less than 1 in thick moldboard shall be provided.
- Y\_\_\_ N\_\_\_ Blade lift accumulators shall be provided, protecting cutting edge and other components from damage from shock loads as an option.

## **ELECTRICAL**

- 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\_\_\_ LED 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\_\_\_ Power must remain available upon key off to purge DEF system lines and protect components.
- 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.
- 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\_\_\_ 24V to 12V converter with 25-amp capacity shall be provided.

### **SERVICEABILITY**

- 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\_\_\_ Lock out Tag out capabilities shall be provided standard and increase the safety levels during down time. This ensures that an energy isolating device and the machine which are being worked on and cannot be operated

- Y\_\_\_ N\_\_\_ DEF tank fill shall be located on the same side of the fuel tank fill, and be easily accessible from ground level.
- Y\_\_\_ N\_\_\_ A guard shall be provided to protect the machine's transmission from debris.
- Y\_\_\_ N\_\_\_ A guard shall be provided to suppress sound from the engine.

**MINIMUM SERVICE FILL CAPACITIES**

- Y\_\_\_ N\_\_\_ Standard fuel tank capacity shall not be less than 104 gallons (394 L).
- Y\_\_\_ N\_\_\_ Standard cooling system capacity shall not be less than 15.0 gallons (57.0 L).
- Y\_\_\_ N\_\_\_ Standard hydraulic tank capacity shall not be less than 16.9 gallons (64.0 L).
- Y\_\_\_ N\_\_\_ Standard engine oil capacity shall not be less than 7.9 gallons (30.0 L).
- Y\_\_\_ N\_\_\_ Standard tandem housing capacity shall not be less than 20.0 gallons (76.0 L) each.
- Y\_\_\_ N\_\_\_ Standard front wheel spindle bearing housing capacity shall not be less than 0.13 gallons (0.5 L).
- Y\_\_\_ N\_\_\_ Standard circle drive housing capacity shall not be less than 1.8 gallons (7 L).
- Y\_\_\_ N\_\_\_ Standard DEF tank capacity shall not be less than 5.8 gallons (22 L).

**SAFETY AND ENVIRONMENTAL**

- 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 provided for ground level engine shut down.
- Y\_\_\_ N\_\_\_ Secondary, electric steering pump with redundant wiring shall be provided as a backup to the primary implement hydraulic pump.
- 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 a steering software system shall automatically reduce steering sensitivity as the ground speed increases.
- 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\_\_\_ Rear vision camera with integrated display and wiring shall be provided.
- Y\_\_\_ N\_\_\_ Drop down rear lights (stop/turn signal lights) shall be provided to span the profile of the machine for increased safety

- Y\_\_\_ N\_\_\_ Outside mounted mirrors (optional heated) shall be provided.
- Y\_\_\_ N\_\_\_ A engine compartment light shall be provided
- Y\_\_\_ N\_\_\_ A seatbelt indicator sensor and light shall be provided

**OPTIONS**

- Y\_\_\_ N\_\_\_ Rear ripper shall be provided with have 3 ripper shanks and 9 scarifier teeth.
- Y\_\_\_ N\_\_\_ Rear ripper shall have a working penetration of maximum 16.8 in (428 mm) and a penetration force of at least 20,693 lb (9386 kg).
- Y\_\_\_ N\_\_\_ Front & rear fenders shall be provided.
  
- Y\_\_\_ N\_\_\_ Machine shall have an integrated technology system that detects and reduces machine bounce to improve grading precision. When throttle control is engaged, engine speed automatically decreases at 15 percent intervals when machine bounce is detected.
- Y\_\_\_ N\_\_\_ An integrated communication tool providing flow of vital machine data and location shall be provided. This system shall give automatic updates on machine parameters such as machine hours, machine condition, location, fault codes and alarms.
- Y\_\_\_ N\_\_\_ Machine shall have a engine coolant circulating heater available.
- Y\_\_\_ N\_\_\_ A front lift group shall be provided. Must be able to fit county's existing V-Plow.
- Y\_\_\_ N\_\_\_ Heated rear view mirrors shall be provided.
- Y\_\_\_ N\_\_\_ A snow wing frame ready option shall be provided.
- Y\_\_\_ N\_\_\_ Machine shall have an integrated technology system to allow the motor grader to articulate automatically while steering in tight spaces or around curves, obstacles, and turnarounds.

**ALL WHEEL DRIVE SYSTEM**

- Y\_\_\_ N\_\_\_ Cat Steering Compensation System enables a “powered turn” by adjusting the outside front tire speed up to 50% faster than the inside tire.
- Y\_\_\_ N\_\_\_ Standard with AWD, this model disengages the transmission and provides hydraulic power to the front wheels only.
- Y\_\_\_ N\_\_\_ The AWD arrangement utilizes dedicated left and right pumps for precise hydraulic control.
- Y\_\_\_ N\_\_\_ When AWD is engaged, flywheel horsepower is automatically increased up to an additional 27 kW (37 hp) compared to the rear drive model.
- 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 powertrain warranty, including parts and labor for required repairs, for a period of six (6) years or five thousand (5,000) hours of operation from date of delivery, whichever occurs first. 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 oil samples for analysis from date of delivery.

85% 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.

## **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.\*\*\***